

**KARPAGAM ACADEMY OF HIGHER EDUCATION****(Deemed to be University)****(Established Under Section 3 of UGC Act 1956)****Coimbatore – 641 021.****(For the Candidates admitted from 2016 onwards)****DEPARTMENT OF COMPUTER SCIENCE, CA & IT****SUBJECT: PROGRAMMING IN PYTHON****SEMESTER: V****SUB.CODE:17CAU501B****CLASS: III BCA****SCOPE**

This course is an introduction to the Python programming language. The course cover data types, control flow, object-oriented programming, and graphical user interface-driven applications.

OBJECTIVES

The educate students how to:

- use Python interactively
- use Python types, expressions, and None • use string literals and string type
- use Python statements (if...elif..else, for, pass, continue, . . .)
- utilize high-level data types such as lists and dictionaries.

UNIT-I

Planning the Computer Program: Concept of problem solving-Problem definition- Program design- Debugging-Types of errors in programming-Documentation.

UNIT-II

Techniques of Problem Solving: Flowcharting-decision table-algorithms-Structured programming concepts-Programming methodologies: top-down and bottom-up Programming.

UNIT-III

Overview of Programming: Structure of a Python Program-Elements of Python.

UNIT-IV

Introduction to Python: Python Interpreter-Using Python as calculator-Python shell- Indentation. Atoms-Identifiers and keywords-Literals-Strings-Operators(Arithmetic operator, Relational

operator, Logical or Boolean operator, Assignment, Operator, Ternary operator, Bit wise operator, Increment or Decrement operator).

UNIT-V

Creating Python Programs: Input and Output Statements-Control statements(Branching, Looping, Conditional Statement, Exit function, Difference between break, continue and pass.). Defining Functions-Default arguments.

SUGGESTED READINGS

1. Allen Downey, Jeffrey Elkner, Chris Meyers, (2012). How to think like a computer scientist : learning with Python , Freely available online.
2. Budd,T.,(2011). *Exploring Python*, (1sted.) TMH

WEBSITES

1. <http://docs.python.org/3/tutorial/index.html>.
2. <http://interactivepython.org/courselib/static/pythonds>.
3. <http://www.ibiblio.org/g2swap/byteofpython/read/>.



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LECTURE PLAN DEPARTMENT OF CS, CA&IT

STAFF NAME: Dr. VIJAYALAKSHMI.P

SUBJECT NAME: PROGRAMMING IN PYTHON

SEMESTER: V

SUB.CODE:17CAU501B

CLASS: III BCA

S.No	Lecture Duration Period	Topics to be Covered	Support Material/Page Nos
		UNIT-I	
1.	1	Planning to computer program	W3, T1:1
2.	1	Concept of problem solving	W3, T1: 1
3.	1	Problem definition	W3, T1: 1
4.	1	Program Design	T1: 3-4
5.	1	Debugging	T1: 4, T1:219-228
6.	1	Types of errors in Programming	T1: 4-6
7.	1	Documentation	W4, T1: 241-247
8.	1	Recapitulation and Discussion of important questions	
	Total No of Hours Planned For Unit I=8		

		UNIT-II	
1.	1	Techniques of problem solving: Flow charting	W2
2.	1	Decision Table	W1
3.	1	Algorithms	W5, T1: 142-143
4.	1	Structured Programming concepts	W3, T1:6-8
5.	1	Programming methodologies: top down and bottom up programming	W4
6.	1	Recapitulation and Discussion of important questions	
	Total No of Hours Planned For Unit II = 6		
		UNIT-III	
1.	1	Overview of programming	T1: 1-3
2.	1	Overview of programming – History of Python	T2: 4-6, W1
3.	1	Structure of Python Program	T1: 8, T2:1-2, W1
4.	1	Elements of Python	W2
5.	1	Recapitulation and Discussion of important questions	
	Total No of Hours Planned For Unit III = 5		
		UNIT-IV	
1.	1	Introduction to python: Python Interpreter	W3,R1:1-5
2.	1	Using Python as Calculator	W3
3.	1	Python shell- Indentation	W1, R1: 5-8
4.	1	Atoms- Identifier and Keywords, literals, Strings	T1:11-14, W4, T1:71-78, T2:65-66,W1
5.	1	Operators- Arithmetic operators, Relational operator, logical or Boolean operator	T1: 16-17 T1:35-37
6.	1	Operators- Assignment operators, Ternary operator, Bitwise Operator, Increment or Decrement operator	T2:13-14 T2:3-4

7.	1	Recapitulation and Discussion of important questions	
	Total No of Hours Planned For Unit IV=7		
		UNIT-V	
1.	1	Creating Python programs: Input and output statements	W1,T2:22
2.	1	Control statement- Branching and Looping	T2:33-38
3.	1	Control statement – Conditional statements, Exit function	T2:33-38, W1, W2
4.	1	Difference between break, continue and Pass	T2:38-39,W1
5.	1	Defining Functions	T1:21-28, T2:46-52
6.	1	Default arguments	T1:28-30, T2:59-60, W2
7.	1	Recapitulation and Discussion of important questions	
8.	1	Discussion on previous ESE question papers	
9.	1	Discussion on previous ESE question papers	
10.	1	Discussion on previous ESE question papers	
	Total No of Hours Planned for Unit V= 10		
Total Planned Hours	36		

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DEPARTMENT OF COMPUTER SCIENCE, CA & IT					
UNIT - I : (Objective Type Multiple choice Questions each Question carries one Mark)					
PROGRAMMING IN PYTHON [17CAU501B]					
PART - A (Online Examination)					
Questions	Opt1	opt2	opt3	opt4	KEY
Last step in process of problem solving is to	design a solution	define a problem	practicing the solution	organizing the data	practicing the solution
Second step in problem solving process is to	design a solution	define a problem	practicing the solution	organizing the data	design a solution
Thing to keep in mind while solving a problem is	input data	output data	stored data	all of above	all of above
First step in process of problem solving is to	design a solution	define a problem	practicing the solution	organizing the data	define a problem
Error in a program is called	bug	debug	virus	noise	bug
Error which occurs when program tried to read from file without opening it is classified as	execution error messages	built in messages	user-defined messages	half messages	execution error messages
_____ is the process of formulating a problem, finding a solution, and expressing the solution	problem solving:	Recover	Format	Retrieve	problem solving
_____ is a set of instructions that specifies a computation	Process	Program	Syntax	Error	Program
_____ is an error in a program that makes it do something other than what the programmer intended.	Syntax error	Semantic error	Run time error	Logical Error	Semantic error
_____ is an error in a program that makes it impossible to parse (and therefore impossible to interpret).	Syntax error	Semantic error	Run time error	Logical Error	Syntax error
_____ is an error that does not occur until the program has started to execute but that prevents the program from continuing.	Syntax error	Semantic error	Run time error	Logical Error	Run time error
_____ is an another name for Run time error	Syntax error	Semantic error	Exception	Semantics	Exception
Which translate a program written in a high-level language into a lowlevel language all at once, in preparation for later execution?	Compile	Interpret	Script	bug	Compile
Which execute a program in a high-level language by translating it one line at a time.	Compile	Interpret	Script	bug	Interpret
_____ is a program in a high-level language before being compiled.	executable	source code	object code	program	source code

Questions	Opt1	opt2	opt3	opt4	KEY
_____ is the output of the compiler after it translates the program.	Coding	source code	object code	program	object code
_____ is the structure of a program	Syntax	Source	Semantics	Algorithm	Syntax
What is a property of a program that can run on more than one kind of computer.	executable	source code	Coding	Portability	Portability
_____ is another name for object code that is ready to be executed.	executable	source code	Coding	program	executable
_____ is the meaning of a program	Syntax	Source	Semantics	Algorithm	Semantics
_____ is to examine a program and analyze the syntactic structure.	Syntax	Source	Semantics	parse	parse
_____ is the process of finding and removing any of the three kinds of programming errors.	bug	debugging	virus	noise	debugging

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Questions	Opt1	opt2	opt3	opt4	KEY
Method which uses a list of well-defined instructions to complete a task starting from a given initial state from a given initial state to end state is calls as	Program	Flowchart	Algorithm	Process	Algorithm
The chart that contains only function flow and no code is called as	flowchart	Structure chart	Algorithm	Process	Structure chart
The sequence logic will not be used while	Accepting input from user	Giving output to the user	Comparing two sets of data	Adding two numbers	Giving output to the user
Flowcharts and Algorithms are used for	Better Programming	Easy testing and Debugging	Efficient Coding	All	All
An Algorithm represented in the form of programming languages is	Flowchart	Pseudo code	Program	Process	Program
Which of the following is not a principle of structured programming?	Design the program in top-down manner	Write each program module as a series of control structures	Code the program so that it runs correctly without testing	Use good programming	Design the program in top-down manner
Which of the following is not a basic control structure	The process	The decision	The Loop	The sequential	The process
Which of the following is a pictorial representation of an algorithm?	Pseudo code	Program	Flowchart	Algorithm	Flowchart
Which of the following symbol in a flowchart are used to indicate all arithmetic processes of adding, subtracting, multiplying and dividing ?	Input/output	terminal	Processing	Decision	Processing
A flowchart that outlines the main segments of program is called as	Micro flowchart	Macro flowchart	Flowchart	Algorithm	Macro flowchart
A flowchart that outlines with all detail is called as	Micro flowchart	Macro flowchart	Flowchart	Algorithm	Micro flowchart
Pseudo code is also known as	Program Design Language	Hardware Language	Software Language	Algorithm	Program Design Language

Questions	Opt1	opt2	opt3	opt4	KEY
Pseudo code emphasizes on	Development	Coding	Design	Debugging	Design
In which of the following pseudo code instructions are written in the order or sequence in which they are to be performed?	Selection Logic	Sequence Logic	Iteration Logic	Looping Logic	Sequence Logic
Which of the following logic is used to produce loops in program logic when one or more instruction may be executed several times depending on some conditions?	Selection Logic	Sequence Logic	Iteration Logic	Looping Logic	Iteration Logic
Selection logic also called as	Sequence Logic	Iteration Logic	Looping Logic	Decision Logic	Decision Logic
Which of the following program planning tool allows the programmers to plan program logic by writing program instruction in an ordinary language?	Flowchart	Pseudo code	Program	Looping	Pseudo code
Algorithm is	step by step execution of program	Object file	Executable file	Source file	Source file
Kite box in flow chart is used for	Connector	Decision	Statement	Looping	Decision
Which of the following is not a characteristic of good algorithm?	Precise	Ambiguous	Finite number of steps	Logical flow of control	Finite number of steps
Diagrammatic representation of an algorithm is	Flowchart	Data flow Diagram	Algorithm design	Pseudo code	Flowchart
What symbol is used to represent output in a flowchart?	Square	Circle	Parallelogram	Triangle	Parallelogram
What is the standard terminal symbol for flowchart?	Square	Circle	Parallelogram	Triangle	Circle
The following pseudo code is an example of _____ structure: Get number While number is positive Add to sum	Sequence	Decision	Loop	Nested	Loop
The following pseudo code is an example of _____ structure: Get number Get another number If first number is greater than second then Print first number Else print second number	Sequence	Decision	Loop	Nested	Decision

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structured program can be easily broken down into routines or _____ that can be assigned to any number of programmers	Segments	Modules	Units	Sequences	Modules
A Decision table is _____	represents the information flow	documents rules, that select one or more actions, based on one or more conditions, from a set of possible conditions	gets an accurate picture of the system	shows the decision paths	documents rules, that select one or more actions, based on one or more conditions, from a set of possible conditions
The Structure Chart is _____	a document of what has to be accomplished	a hierarchical partitioning of the program	a statement of information - processing requirements	shows the decision paths	a hierarchical partitioning of the program

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Python is an _____ Language	Logical	Interpreted	Procedural	Structural	Interpreted
Python was designed by _____	John Chambers	Robert Gentleman	Guido van Rossum	Ritchie	Guido van Rossum
Which of these is not a core data type?	Lists	Dictionary	Tuples	Class	Class
Which of the following will run without errors ?	round(45.8)	round(6352.898,2,5)	round()	round(7463.123,2,1)	round(45.8)
What error occurs when you execute? apple = mango	SyntaxError	NameError	ValueError	TypeError	NameError
Which of the following is not a complex number?	k = 2 + 3j	k = 2 + 3l	k = complex(2, 3)	k = 2 + 3J	k = 2 + 3l
What is the type of inf?	Boolean	Integer	Float	Complex	Float
What does ~4 evaluate to?	-5	-4	-3	3	-5
What does ~~~~~5 evaluate to?	5	-11	11	-5	5
Which of the following is incorrect?	float('inf')	float('nan')	float('56'+ '78')	float('12+34')	float('12+34')
What is the result of round(0.5) – round(-0.5)?	1	2	0	-1	2
What does 3 ^ 4 evaluate to?	81	12	0.75	7	7
Python is an example of a _____	low level language	high level language	middle level language	assembly language	high level language
_____ is an instruction that causes the Python interpreter to display a value on the screen.	input statement	print statement	display	statement	print statement
Evaluate the expression given below if A= 16 and B = 15. A % B // A	0	1	1	-1	0

Questions	Opt1	opt2	opt3	opt4	KEY
Which of the following operators has its associativity from right to left?	+	//	%	**	**
What is the value of x if: <code>x = int(43.55+2/2)</code>	43	44	22	23	44
Which of the following is the truncation division operator?	/	%	//	/	//
What is the value of the following expression: <code>float(22//3+3/3)</code>	8	8	8.3	8.33	8
What is returned by <code>math.ceil(3.4)</code> ?	3	4	4.01	3.01	4
What is the output of this expression if <code>x=22.19</code> ? <code>print("%5.2f"%x)</code>	56	56.24	56.23	56.236	56.24

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Is Python case sensitive when dealing with identifiers?	yes	no	machine dependent	machine independent	yes
What is the maximum possible length of an identifier?	31 characters	63 characters	79 characters	Identifiers can be of any length.	Identifiers can be of any length.
Which of the following is an invalid variable?	my_string_1	1st_string	__	foo	1st_string
Why are local variable names beginning with an underscore discouraged?	they are used to indicate a private variables of a class	they confuse the interpreter	they are used to indicate global variables	they slow down execution	they are used to indicate a private variables of a class
Which of the following is not a keyword?	eval	assert	nonlocal	pass	eval
Which of the following is true for variable names in Python?	unlimited length	all private members must have leading and trailing underscores	underscore and ampersand are the only two special characters allowed	limited length	unlimited length
Which of the following is an invalid statement?	abc = 1,000,000	a b c = 1000 2000 3000	a,b,c = 1000, 2000, 3000	a_b_c = 1,000,000	a b c = 1000 2000 3000
Which of the following cannot be a variable?	__init__	in	it	on	in
Which is the correct operator for power(xy)?	X^y	X**y	X^^y	X*y	X**y
Which one of these is floor division?	/	//	%	**	//
What is the order of precedence in python? i) Parentheses ii) Exponential iii) Multiplication iv) Division v) Addition vi) Subtraction	i,ii,iii,iv,v,v i	ii,i,iii,iv,v,vi	ii,i,iv,iii,v,vi	i,ii,iii,iv,vi,v	i,ii,iii,iv,v,vi
What is answer of this expression, 22 % 3 is?	7	1	0	5	1

Questions	Opt1	opt2	opt3	opt4	KEY
Operators with the same precedence are evaluated in which manner?	Left to Right	Right to Left	Can't say	Right	Left to Right
Which one of the following have the same precedence?	Addition and Subtraction	Multiplication and Division	Both Addition and Subtraction AND Multiplication and Division	Addition and Multiplication	Addition and Subtraction
Which one of the following have the highest precedence in the expression?	Exponential	Addition	Multiplication	Parentheses	Parentheses
What is the result of the snippet of code shown below if x=1? x<<2	8	1	2	4	4
The one's complement of 110010101 is:	001101010	110010101	1101011	110010100	001101010
Bitwise _____ gives 1 if either of the bits is 1 and 0 when both of the bits are 1.	OR	AND	XOR	NOT	XOR
Which of the following expressions can be used to multiply a given number 'a' by 4?	a<<2	a<<4	a>>2	a>>4	a<<2
What arithmetic operators cannot be used with strings ?	+	*	-	/	-
What is the output when following code is executed ? >>> str1 = 'hello' >>> str2 = ',' >>> str3 = 'world' >>> str1[-1:]	olleh	hello	h	o	o
What is the output when following code is executed ? >>>print r"\nhello"	a new line and hello	\nhello	the letter r and then hello	error	\nhello
What is "Hello".replace("l", "e")	Heeeo	Heelo	Heleo	Hello	Heeeo
To retrieve the character at index 3 from string s="Hello" what command do we execute (multiple answers allowed) ?	s[3].	s.getitem(3)	s.__getitem__(3)	s.getItem(3)	s.__getitem__(3)
What function do you use to read a string?	input("Enter a string")	eval(input("Enter a string"))	enter("Enter a string")	eval(enter("Enter a string"))	input("Enter a string")
What is the output of the following? print("abc DEF".capitalize())	abc def	ABC DEF	Abc def	Abc Def	Abc def

Questions	Opt1	opt2	opt3	opt4	KEY
What is the output of the following? <code>print("xyzxyzxzxyy".count('yy'))</code>	2	0	error	xyz	2
What is the output of the following? <code>print("Hello {name1} and {name2}".format(name1='foo', name2='bin'))</code>	Hello foo and bin	Hello {name1} and {name2}	Error	Hello and	Hello foo and bin
What is the output of the following? <code>print('cd'.partition('cd'))</code>	('cd')	('')	('cd', "", "")	("", 'cd', "")	("", 'cd', "")
What is the output of the following? <code>print('abef'.partition('cd'))</code>	('abef')	('abef', 'cd', "")	('abef', "", "")	error	('abef', "", "")

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ARTMENT OF COMPUTER SCIENCE, CA & IT					
UNIT - IV : (Objective Type Multiple choice Questions each Question carries one Mark)					
PROGRAMMING IN PYTHON [17CAU501B]					
PART - A (Online Examination)					
Questions	Opt1	opt2	opt3	opt4	KEY
Is Python case sensitive when dealing with identifiers?	yes	no	machine dependent	machine independent	yes
What is the maximum possible length of an identifier?	31 characters	63 characters	79 characters	Identifiers can be of any length.	Identifiers can be of any length.
Which of the following is an invalid variable?	my_string_1	1st_string	__	foo	1st_string
Why are local variable names beginning with an underscore discouraged?	they are used to indicate a private variables of a class	they confuse the interpreter	they are used to indicate global variables	they slow down execution	they are used to indicate a private variables of a class
Which of the following is not a keyword?	eval	assert	nonlocal	pass	eval
Which of the following is true for variable names in Python?	unlimited length	all private members must have leading and trailing underscores	underscore and ampersand are the only two special characters allowed	limited length	unlimited length
Which of the following is an invalid statement?	abc = 1,000,000	a b c = 1000 2000 3000	a,b,c = 1000, 2000, 3000	a_b_c = 1,000,000	a b c = 1000 2000 3000
Which of the following cannot be a variable?	__init__	in	it	on	in
Which is the correct operator for power(xy)?	X^y	X**y	X^^y	X*y	X**y
Which one of these is floor division?	/	//	%	**	//
What is the order of precedence in python? i) Parentheses ii) Exponential iii) Multiplication iv) Division v) Addition vi) Subtraction	i,ii,iii,iv,v,v i	ii,i,iii,iv,v,vi	ii,i,iv,iii,v,vi	i,ii,iii,iv,vi,v	i,ii,iii,iv,v,vi
What is answer of this expression, 22 % 3 is?	7	1	0	5	1

Questions	Opt1	opt2	opt3	opt4	KEY
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What function do you use to read a string?	input("Enter a string")	eval(input("Enter a string"))	enter("Enter a string")	eval(enter("Enter a string"))	input("Enter a string")
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What is the output of the following? <code>print('cd'.partition('cd'))</code>	('cd')	('')	('cd', "", "")	("", 'cd', "")	("", 'cd', "")
What is the output of the following? <code>print('abef'.partition('cd'))</code>	('abef')	('abef', 'cd', "")	('abef', "", "")	error	('abef', "", "")

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PROGRAMMING IN PYTHON [17CAU501B]					
PART - A (Online Examination)					
Questions	Opt1	opt2	opt3	opt4	KEY
We use the _____ function to output data to the standard output device (screen).	input()	print()	output()	printf()	print()
Some of the functions like _____ and _____ are widely used for standard input and output operations	input() and printf()	output() and print()	input() and print()	input() and output()	input() and print()
In Python, _____ is a group of related statements that perform a specific task.	function	method	data	print	function
_____ through which we pass values to a function	method	data	print	parameter	parameter
What is the output of the following? x = ['ab', 'cd'] for i in x: i.upper() print(x)	['ab', 'cd'].	['AB', 'CD'].	[None, None].	['abv', 'cd'].	['ab', 'cd'].
What is the output of the following? i = 1 while True: if i%2 == 0: break print(i) i += 2	1	1 2	1 2 3 4 5 6 ...	1 3 5 7 9 11 ...	1 3 5 7 9 11 ...
What is the output of the following? i = 0 while i < 5: print(i) i += 1 if i == 3: break else: print(0)	0 1 2 0	0 1 2	error	0 1 2 1	0 1 2

Questions	Opt1	opt2	opt3	opt4	KEY
Which of the following is the use of function in python?	Functions are reusable pieces of programs	Functions don't provide better modularity for your application	you can't also create your own functions	All of the mentioned	Functions are reusable pieces of programs
Which keyword is use for function?	Fun	Define	Def	Function	Def
What is the output of the below program? def sayHello(): print('Hello World!') sayHello() sayHello()	Hello World! Hello World!	'Hello World!' 'Hello World!'	Hello Hello	Hello Hello W	Hello World! Hello World!
Which of the following functions is a built-in function in python?	seed()	sqrt()	factorial()	print()	print()
What is the output of the expression: round(4.576)	4.5	5	4	4.6	5
The function pow(x,y,z) is evaluated as:	(x**y)**z	(x**y) / z	(x**y) % z	(x**y)*z	(x**y) % z
What is the output of the expression? round(4.5676,2)?	4.5	4.6	4.57	4.56	4.57
What is the output of the following function? any([2>8, 4>2, 1>2])	Error	TRUE	FALSE	4>2	TRUE
What is the output of the function: all(3,0,4.2)	Error	TRUE	FALSE	0	Error
What are the outcomes of the following functions? chr('97') chr(97)	a Error	'a' a	Error a	Error Error	Error a
What is the output of the following function? complex(1+2j)	Error	1	2j	1+2j	1+2j
What is the output of the following? x = 123 for i in x: print(i)	1 2 3	123	error	1234	error
What is the output of the following? d = {0: 'a', 1: 'b', 2: 'c'} for i in d: print(i)	0 1 2	a b c	0 a 1 b 2 c	01abc2	0 1 2

Questions	Opt1	opt2	opt3	opt4	KEY
What is the output of the following? for i in range(2.0): print(i)	0.0 1.0	0 1	error	0 1 00	error
What is the output of the following? for i in range(int(2.0)): print(i)	0.0 1.0	0 1	error	0 1 00	0 1

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Some of the functions like _____ and _____ are widely used for standard input and output operations	input() and printf()	output() and print()	input() and print()	input() and output()	input() and print()
In Python, _____ is a group of related statements that perform a specific task.	function	method	data	print	function
_____ through which we pass values to a function	method	data	print	parameter	parameter
What is the output of the following? x = ['ab', 'cd'] for i in x: i.upper() print(x)	['ab', 'cd'].	['AB', 'CD'].	[None, None].	['abv', 'cd'].	['ab', 'cd'].
What is the output of the following? i = 1 while True: if i%2 == 0: break print(i) i += 2	1	1 2	1 2 3 4 5 6 ...	1 3 5 7 9 11 ...	1 3 5 7 9 11 ...
What is the output of the following? i = 0 while i < 5: print(i) i += 1 if i == 3: break else: print(0)	0 1 2 0	0 1 2	error	0 1 2 1	0 1 2

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The function pow(x,y,z) is evaluated as:	(x**y)**z	(x**y) / z	(x**y) % z	(x**y)*z	(x**y) % z
What is the output of the expression? round(4.5676,2)?	4.5	4.6	4.57	4.56	4.57
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What is the output of the following? d = {0: 'a', 1: 'b', 2: 'c'} for i in d: print(i)	0 1 2	a b c	0 a 1 b 2 c	01abc2	0 1 2

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What is the output of the following? for i in range(2.0): print(i)	0.0 1.0	0 1	error	0 1 00	error
What is the output of the following? for i in range(int(2.0)): print(i)	0.0 1.0	0 1	error	0 1 00	0 1