Question Bank

Python programming

UNIT-1

1 Mark Questions

1. Who is the creator of the Python programming language?

Ans: Guido van Rossum in the year 1991

1. Which is the official web site to download the python software?

Ans:www.python.org/downloads

1. Is Python case sensitive when dealing with identifiers?

Ans:yes

1. How do you comment in python?

Ans: # comment symbol

5. How a statement can be extended to multiple lines

Ans: \, ;, (),[]

6. How the Python interpreter recognizes blocks?

Ans : interpreter means it will check line by line code and whitespaces,we should give space where it needs

7. In regard to the data types which of the following option is best suitable for python

Ans : d

#8. Dynamically typed b. strongly typed c. loosely typed d. Both a and b

9. How many keywords are supported by Python? (please mention the version)

Ans:In python2.0 version has the 30 keywords only and in python 3.0 version has 33 keywords

10. Write the rules for choosing names of variables.

Ans: 1.variable name should start with uppercase letter or lowercase letter or underscore(\_) other than it will show the error.

2. Keywords are the reserved, so you can't use their names for defining variables.

3. 3oops = 0 # error,oops3 = 0 # it is not error.

11. Which function is useful to return the type of a variable or value?

Ans: True,False,None.

12. What are the different ways to execute python code?

Ans:1.we can execute in python command prompt or saving the file with .py we can execute

2.We can execute in editiors like Atom,jupyter

13. Write the general form of print function.

Ans: print() which will print an object to the terminal

print(“hello”)

print[]

14. Which function allows for interactive input?

Ans:

15. What are the key features of Python?

Ans: 1.object oriented

2.interpreter

3.high level language

4.freely available and open source

16. Given a function that does not return any value, what value is thrown by default when executed in shell?

Ans:int ,bool and string they will not show any return value

1. None

2.Python shell throws a NoneType object back.

17. Strings are immutable in Python. Explain.

Ans:1.Strings are both immutable and mutable

2.When string mutable means when we declare into list

3.tuples,collections are immutabe

18. How do you check the current version of python

Ans :When we open the python command prompt first line represents the current version of python.

19. Why is python called as an interactive language?

Ans:1.Python has two basic modes: script and interactive.

2. Interactive mode is a command line shell which gives immediate feedback for each statement.

20. Which command is used to run python script saved in a file named test.py?

Ans:f5

21. What are the values of a, b and c after executing the following statement

>> a,b,c = 1,2,"john"

>>> print(a,b,c)

Output:1 2 john

22. Write code to Print the given string 20 times

Ans: x = “john”

print(x\*20)

23. What is byte code

Ans:1.Python byte code is the code which is generated after compiling a python program.

2. Byte Code is automatically created in the same directory as .py file.

24. What is difference between compiler and interpreter?

Ans:compiler:high level language to low level language or whole code converts into machine language.

Interpreter:check line by line.

25. What are environment variables?

Ans:1.PYTHONPATH

2.pythonstartup

3.pythoncaseok

4.python home

26. What is the use of None keyword?

Ans: None is a special constant in Python.

None we can assign to the variables

Example:x = none

y = none

x==y

o/p:True

27. What happens if a semicolon (;) is placed at the end of a Python statement?

Ans:1.first it will not show any error.

2.And it takes into next line and if we keep semicolon in print statement,it will be executed.

10 Mark Questions

1.

a. Explain the Features of Python Language in detail. 5M

b. Discuss the history of Python Language in detail. 5M

2. a. Briefly discuss about running Python scripts in the following modes. 6M

i. Script mode ii. Interactive mode

b. Explain indentation in python 4M

3. a. Explain the steps involved in python installation in the following platforms 7M

i. windows ii. GNU/LINUX

b.Discuss bout variables and assignments. 3M

4. Write in brief about any 5 keywords in Python. 10M

5. What are different data types supported by Python? Explain. 10M

6.

a. Write a python program to read two numbers and perform all possible arithmetic operations 5M

b. Write a python program to display all the python keywords and display each of them in separate lines 5M

Question Bank

Python programming

UNIT -2

1 Mark Questions

1. Explain about Boolean data types

Ans: Boolean datatypes introduced in python version 3 .They are two

1.True

2.False

T&F should be capital and they are special values in python.

2. What are the numerical data types supported by python

Ans:int,long(L),float,complex

3. Which of the values are considered as False in python

Ans: False in the truth table where in condtiomn it will be used And it can print by default

Example:5==5 # True

5==4 #False

4. What are different types of operators supported by python?

1.arithmatic operator.

2.assignment operator.

3.relational operator.

4.logical operator.

5.bitwise operator.

6.membership opetrator.

7.Identity operator.

5. Explain the usage of ‘// ‘operator with example.

Ans:// to print the quotient

9//3 #o/p :3

6. What are different assignment operators supported by python?

+=, -=, /=, %=, //= ,\*=,\*\*=

7. What are the different membership operators supported by python?

Ans:These operators test for membership in a sequence such as lists, strings or tuples. There are two membership operators that are used in Python. (in, not in).

8.What are the different identity operators supported by python?

Ans: The two identify operators used in Python are (is, is not).

9. Why do we need control structures in a programming language?

Control the execution of program

10. Which keyword is used to indicate a null operation in python?

pass

11. Write a statement find power (xy) in python?

Ans: x = 10

>>> y = 20

>>> print(x\*\*y)

100000000000000000000

12. What is answer of this expression, 22 % 3 is?

a) 7 b) 1 c) 0 d) 5

Ans :b

13. What is the output of this expression, 3\*1\*\*3?

a) 27 b) 9 c) 3 d) 1

Ans :c

14. Which of these in not a core data type?

a) Lists b) Dictionary c) Tuples d) Class

Ans :d

15. Write the output of the following function?

>>>range (1, 100, 10)

o/p: range(1, 100, 10)

As we kept in list it will print

list(range(1, 100, 10))

[1, 11, 21, 31, 41, 51, 61, 71, 81, 91]

16. In order to store values in terms of key and value which core data type is used?

dictonary

17. Write the expected output of the following code snippets:

>>>len ([1, 2, 3])?

Ans:3

18. Write the expected output of the code snippets:[1, 2, 3] + [4, 5, 6].

Ans:[1,2,3,4,5,6,]

10 Mark Questions

1.

a. What are built-in numeric data types in Python? Explain with suitable examples. 4M

b. Write a code to print first n natural numbers. 3M

c. Compute sum of first N even numbers 3M

2.

a. List and explain different arithmetic operators supported by Python. Discuss about their precedence and associativity. 5M

b. Write a Python program to print all prime numbers less than 256. 3M

c. Write a program to check whether the given number is prime or not 2M

3. Explain different types of operators supported by python with suitable examples 10M

4. Explain different control structures supported in python with general form and suitable examples 10M

5. Write the python code to achieve the following

a. Find sum of the first odd and even numbers

b. Find the factorial of given number

c. Print the Fibonacci series up to given number