

PYTHON – WORKSHEET 1

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

1. Which of the following operators is used to calculate remainder in a division?
- | | |
|------|-------|
| A) # | B) & |
| C) % | D) \$ |

Answer-C

The modulo operator, denoted by %, is an arithmetic operator. The modulo division operator produces The remainder of an integer division.

2. In python 2//3 is equal to?
- | | |
|----------|---------|
| A) 0.666 | B) 0 |
| C) 1 | D) 0.67 |

Answer-B

Floor division discards the fractional part.

3. In python, 6<<2 is equal to?
- | | |
|-------|-------|
| A) 36 | B) 10 |
| C) 24 | D) 45 |

Answer-C

Bitwise left shift operator (<<) operator move the left operand's values to the left by the number of the bits specified by the right operand .

4. In python, 6&2 will give which of the following as output?
- | | |
|----------|---------|
| A) 2 | B) True |
| C) False | D) 0 |

Answer-A

Bitwise and operator sets each bit to 1 if both bits are 1.

6=0110

2=0010

Answer=0010(So, 0010 is 2)

5. In python, 6|2 will give which of the following as output?
- | | |
|------|------|
| A) 2 | B) 4 |
| C) 0 | D) 6 |

Answer-D

Bitwise or operator sets each bit to 1 if both bit to one of two bits is 1.

6=0110

2=0010

Answer=0110(So, 0110 is 6)

6. What does the finally keyword denotes in python?
- A) It is used to mark the end of the code
- B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.
- C) the finally block will be executed no matter if the try block raises an error or not.
- D) None of the above

Answer-C

The finally keyword is used in try...except blocks. It defines a block of code to run when the try...except...else block is final.

The finally block will be executed no matter if the try block raises an error or not.

This can be useful to close objects and clean up resources.

7. What does raise keyword is used for in python?
- | | |
|--------------------------------------|---|
| A) It is used to raise an exception. | B) It is used to define lambda function |
|--------------------------------------|---|

C) it's not a keyword in python.

D) None of the above

Answer-A

It is used to raise an exception.

8. Which of the following is a common use case of yield keyword in python?

A) in defining an iterator

B) while defining a lambda function

C) in defining a generator

D) in for loop.

Answer-C

Yield are used in Python **generators**. A generator function is defined like a normal function, but whenever it needs to generate a value, it does so with the yield keyword rather than return. If the body of a def contains yield, the function automatically becomes a generator function.

Q9 and Q10 have multiple correct answers. Choose all the correct options to answer your question.

9. Which of the following are the valid variable names?

A) _abc

B) 1abc

C) abc2

D) None of the above

Answer- (A and C):- _abc and abc2

10. Which of the following are the keywords in python?

A) yield

B) raise

C) look-in

D) all of the above

Answer-(A & B):-Yield and raise

Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.

11. Write a python program to find the factorial of a number.
12. Write a python program to find whether a number is prime or composite.
13. Write a python program to check whether a given string is palindrome or not.
14. Write a Python program to get the third side of right-angled triangle from two given sides.
15. Write a python program to print the frequency of each of the characters present in a given string.

All program attach in github (sheet1)
