

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) \$

2. In python 2//3 is equal to?

- A) 0.666
- B) 0**
- C) 1
- D) 0.67

3. In python, 6<<2 is equal to?

- A) 36
- B) 10
- C) 24**
- D) 45

4. In python, 6&2 will give which of the following as output?

- A) 2**
- B) True
- C) False
- D) 0

5. In python, 6|2 will give which of the following as output?

- A) 2
- B) 4
- C) 0
- D) 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

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

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.

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) labc**
- C) abc2**
- D) None of the above

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

- A) yield**
- B) raise**
- C) look-in
- D) all of the above

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

11. Write a python program to find the factorial of a number.

A) # Factorial of a Number

```
num=int(input("Enter a number: "))
fac=1
for i in range(1, num+1):
    fac = fac * i
print("Factorial of the", num," is ", fac)
```

12. Write a python program to find whether a number is prime or composite.

A) num=int(input("Enter any number: "))

```
if num>1:
    for i in range(2,num):
        if(num % i)==0:
            print(num,"is NOT a prime number")
            break
    else:
        print(num,"is a PRIME number ")
```

elif num == 0 or 1:

```
    print(num," is NEITHER prime NOR composite number")
```

else:

```
    print(num,"it is NOT a prime number it is a COMPOSITE number")
```

13. Write a python program to check whether a given string is palindrome or not.

A) my_str=str(input('Enter any string: '))

```
rev_str=reversed(my_str)
if list(my_str)==list(rev_str):
    print("The ",my_str, "is a Palindrome")
else:
    print("The ",my_str,"is not a Palindrome")
```

14. Write a Python program to get the third side of right-angled triangle from two given sides.

A) import math

```
a=float(input("Enter 1st shorter side of the triangle : "))
b=float(input("Enter 2nd shorter side of the triangle : "))
#Pythagoras theorem
c=math.sqrt(a**2 + b**2)
print("The third side hypotenuse of the right angle triangle is : ", c )
```

15. Write a python program to print the frequency of each of the characters present in a given string.

A) my_string=input("Enter a string : ")

```
count= {}
for letter in my_string:
    if letter in count:
        count[letter]+=1
    else:
        count[letter]=1
print("Count Frequency is ...")
for key, value in count.items():
    print(f"{key} occurs {value} times")
```