

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

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

Answer - B

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

Answer – C

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

Answer – A

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

Answer – D

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

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

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

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

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

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

Answer – B and C

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

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

Answer

```
num = int(input("Enter a number = "))
fac = 1
i = 1
while i <= num:
    fac = fac * i
    i = i + 1
print('Factorial of', num, 'is', fac)
```

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

Answer

```
num = int(input("Enter any number = "))

if num > 1:
    for i in range(2, num):
        if num % i == 0:
            print(num, 'is a Composite number')
            break
    else:
        print(num, 'is a Prime number')

elif num == 0 or num == 1:
    print(num, 'is neither Prime nor Composite')
```

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

Answer

```
word = input('Enter a word = ')

word = word.casefold()
str = reversed(word)

for i in word:
    if (list(word) == list(str)):
        print(word,'is Palindrom')
        break
    else:
        print(word,'is not Palindrom')
        break
```

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

Answer

```
import math

a = float(input("Enter base: "))
b = float(input("Enter height: "))

c = math.sqrt(a ** 2 + b ** 2)

print("Hypotenuse =", c)
```

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

Answer

```
string=input("Enter the string: ")
string = string.casefold()
char=input("Please enter the char to find frequency of the character\n")
count=0
for i in range(len(string)):
    if(string[i]==char):
        count=count+1
print("The frequency of the ",char,"in the string is: ",count)
```
