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?
Ans: C. %

2. In python 2//3 is equal to? Ans.B. 0

3. In python, 6<<2 is equal to?Ans: C. 24

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

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

6. What does the finally keyword denotes in python?
Ans:C. the finally block will be executed no matter if the try block raises an error or not.

7. What does raise keyword is used for in python?
Ans:A.It is used to raise an exception.

8. Which of the following is a common use case of yield keyword in python?
Ans: C. in defining a generato

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?
Ans: C. abc2

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.
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.

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

```
n=int(input("Enter the Number"))
if(n==0 or n==1):
   print("The factorial of {} is".format(n),1)
else:
   f=1
   r=range(2,n+1)
   for i in r:
      f=f*i
   print("The factorial of {} is".format(n), f)
```

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

```
def PR_CMPT():
    try:
       n=int(input("Enter the Number"))
       if(n<=0):
          print("Please Enter a number greater than zero")
          raise TypeError
       else:
          r=range(2,n)
          if(n<=3):
             print("you entered number {} is prime".format(n))
          else:
             for i in r:
                if(n%i==0):
                   print("the number {} is composite, it is divisible by {}".format(n, i))
                   break
             else:
                print("the number {} is prime! because it is not divisible by any of its
    preceding number other than 1".format(n))
```

```
    except ValueError:
        print("Please don't enter decimal numbers")
```

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

```
s1=str(input("Enter the word"))
s1=s1.upper()
s2=s1[::-1]
if(s1==s2):
    print("Given Word is Palindrome")
else:
    print("Given Word is not Palindrome")
```

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

```
s1=float(input("Enter the 1st side of triangle"))
s2=float(input("Enter the 2nd side of triangle"))
import math
s3=round(math.sqrt(math.pow(s1,2)+math.pow(s2,2)),2)
print("the hypothenius of the triangle is {}".format(s3))
```

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

```
w=str(input("Enter the word  "))
w=w.upper()
r=range(65,91)
for i in r:
    k=0
    n=chr(i)
```

```
for j in w:
    if(j==n):
        k=k+1
if(k>=1):
    print("frequecy of ",n,"is",k)
```