

# PYTHON – WORKSHEET-1

## ANSWERSHEET

1. C
2. B
3. C
4. A
5. D
6. C
7. A
8. C
9. A & C
10. A & B

## PROGRAMING

### 1. Program of Factorial

```
num = int(input("Enter Factorial Number = "))
fac = 1

if num <= 0:
    print ("Factorial is 1")

else:
    print ( "Factorial Calculation Method")

    for i in range (1, num+1):

        f = fac * i

        print (fac, "*", i, "=", f)

        fac = f

print ("\nFactorial", num , "is", fac)
```

## **2. Program for Prime Number or Composite Number**

```
number = int(input("Enter any number:"))  
if number ==1:  
    print ("This is not Prime and not Composite")  
else:  
    for i in range(2,number):  
        if (number%i)==0:  
            print(number, "is Composite number")  
            break  
    else:  
        print(number, "is prime number")
```

## **3. Program for String Palindrome**

```
string = input("Enter Any Word: ")  
rev_string = string[::-1]  
if string == rev_string:  
    print ("This Word is Palindrome")  
else:  
    print ("This Word is Not Palindrome")
```

## **4. Program for 3<sup>rd</sup> side of Right Angle**

```
import math  
a = float(input("Enter the Base A = "))  
b = float(input("Enter the Base B = "))  
c=math.sqrt(a*a + b*b)  
print ("3rd Side of Right Angle", float(c))
```

## 5. Program to print the frequency of each of the characters present in a given string

```
a = input("Enter any String: ")  
for x in a:  
    if x in count.keys():  
        count[x]+=1  
    else:  
        count[x]=1  
    for x in count.keys():  
print (x, "Number of", count[x], "times")
```