**Python Worksheet-1**

Answer’s of Questions

Ans.1 option C

Ans.2 option A

Ans.3 option C

Ans.4 option A

Ans.5 option D

Ans.6 option C

Ans. 7 option A

Ans. 8 option C

Ans.9 option C

Ans.10 option D

**Python programming Answers**

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

n = int(input("Enter a number: "))

factorial =1

if n >= 1:

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

factorial = factorial \* i

print("Factorial of the given number is: ", factorial)

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

n = int(input('Enter any number: '))

if (n==0 or n==1):

print(n, "Number is neither prime nor composite")

elif n>1:

for i in range(2,n):

if (n%i == 0):

print(n, "is not prime but composite number")

break

else:

print(n,"Number is prime but not composite number")

else:

print("Please enter positive number only")

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

x = "malayalam"

w = ""

for i in x:

w = i + w

if (x == w):

print("Yes")

else:

print("No")

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

def pythagoras(opposite\_side,adjacent\_side,hypotenuse):

if opposite\_side == str("x"):

return ("Opposite = " + str(((hypotenuse\*\*2) - (adjacent\_side\*\*2))\*\*0.5))

elif adjacent\_side == str("x"):

return ("Adjacent = " + str(((hypotenuse\*\*2) - (opposite\_side\*\*2))\*\*0.5))

elif hypotenuse == str("x"):

return ("Hypotenuse = " + str(((opposite\_side\*\*2) + (adjacent\_side\*\*2))\*\*0.5))

else:

return "You know the answer!"

print(pythagoras(3,4,'x'))

print(pythagoras(3,'x',5))

print(pythagoras('x',4,5))

print(pythagoras(3,4,5))

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

string=input("Enter the string: ")

char=input("Please enter the char to find frequency of ta character\n")

count=0

i=0

while(i<len(string)):

if(string[i]==char):

count=count+1

i=i+1

print("The frequency of the ",char,"in the string is: ",count)