**PYTHON – WORKSHEET 1**

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

Program to find the factorial of a number:

myfunc = lambda n:n-1 + abs(n-1) and f(n-1)\*n or 1

myfunc(5)

* 120

def isprime(n):

\_isprime = False

if n > 1:

for i in range(2,n):

if n%2 == 0:

\_isprime = True

break

else:

\_isprime = True

if \_isprime:

print(n,"is not a prime number")

else:

print(n,"is a prime number")

if \_\_name\_\_ == "\_\_main\_\_":

isprime(int(input("Enter you number: ")))



palindrome\_fn = lambda x: f”{x} String is Palindrome” if x==x[::-1] else f"{x} String is not a palindrome"

palindrome\_fn(“racecar”)



import math

a,b = [int(x) for x in input("Enter the 2 sides of the traingle").split()]

while True:

x = input('is one of the side hypotenuse? (y=yes|n=no)')

if x =='y':

print(math.sqrt(abs(a\*a-b\*b)))

break

elif x == 'n':

print(math.sqrt(a\*a+b\*b))

break

else:

print("invalid option...try again")



def get\_char\_freq(input\_string):

for char in input\_string:

if char in frequencies:

frequencies[char] += 1

else:

frequencies[char] = 1

return frequencies

if \_\_name\_\_=="\_\_main\_\_":

input\_string = input("Enter String:\n")

print(get\_char\_freq(input\_string))