

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

```
In [1]: N=int(input("Factorial of "))
F=1

if N<0:
    print("Factorial Doesnot Exist")
elif N==0:
    print("Factorial of 0 is 1")
else:
    for i in range (1,N+1):
        F=F*i
    print("Factorial of ",N ,"is", F)
```

```
Factorial of 7
Factorial of 7 is 5040
```

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

```
In [2]: N= int(input("Entered Number is "))

if (N==0 or N==1):
    print("Number entered ",N,"is not Prime number nor composite number")

elif N>1:
    for i in range(2,N):
        if(N%i ==0):
            print("Number entered ",N,"is not Prime number but Composite number")
            break
    else:
        print("Number -`entered ",N,"is Prime number not Composite number")

else:
    print("Enter positive number only")
```

```
Entered Number is 5
Number entered 5 is Prime number not Composite number
```

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

```
In [3]: def isPalindrome(a):
        return a == a[::-1]

a = "Number"
ans = isPalindrome(a)

if ans:
    print("Yes")
else:
    print("No")
```

```
No
```

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

```
In [4]: import math

a=int(input("Length of Right angled traingle ="))
```

```
b=int(input("Height of Right angled traingle ="))

#hypotenuse

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

print("Hypotenuse of Right angled traingle =",c)
```

Length of Right angled traingle =15
Height of Right angled triangle =20
Hypotenuse of Right angled traingle = 25.0

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

```
In [5]: test_str = "MALAYALAM"

all_freq = {}

for i in test_str:
    if i in all_freq:
        all_freq[i] += 1
    else:
        all_freq[i] = 1

print("Count of all characters in MALAYALAM is :\n "
      + str(all_freq))
```

Count of all characters in MALAYALAM is :
{'M': 2, 'A': 4, 'L': 2, 'Y': 1}