

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

```
In [1]: num=int(input("Enter a number:"))
x=0
for i in range(2, num):
    if (num % i ==0):
        x = 1
        break

if (x==0):
    print("The number is prime")
else:
    print("The number is not prime")
```

Enter a number:10
The number is not prime

```
In [6]: num=int(input("Enter a number:"))
count=0
i=1
while i<=num:
    if (num % i ==0):
        count=count+1
    i=i+1
if count==2:
    print("Ita a prime number")
elif count>2:
    print("Its a composite number")
else:
    print("The number is neigher prime nor composite")
```

Enter a number:11
Ita a prime number

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

```
In [7]: x=int(input("Enter number:"))
fact=1

for i in range(1,x+1):
    fact=fact*i
print("Factorial number is:",fact)
```

Enter number:6
Factorial number is: 720

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

```
In [18]: x=input("Enter a string:")
reverse=(x[::-1])
if reverse==x:
    print("palindrome")
```

```
else:  
    print("Not a Palindrome")
```

Enter a string:tiger
Not a Palindrome

```
In [19]: x=input("Enter a string:")  
reverse=(x[::-1])  
if reverse==x:  
    print("Palindrome")  
else:  
    print("Not a Palindrome")
```

Enter a string:madam
Palindrome

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

```
In [21]: a=float(input("Enter the first angle:"))  
b=float(input("Enter the second angle:"))  
c=180-(a+b)  
print("The third angle of the triangle is:",c)
```

Enter the first angle:30
Enter the second angle:60
The third angle of the triangle is: 90.0

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

```
In [25]: st=input("Enter any String")  
ch=input("Enter search Character")  
p=0  
for i in st:  
    if i==ch:  
        p=p+1  
print("Number of time found=",p)
```

Enter any Stringpython program
Enter search Characterp
Number of time found= 2

In []: