```python
In [1]: 2//3
```
Out[1]: 0

```python
In [2]: 6<<2
```
Out[2]: 24

```python
In [3]: 6&2
```
Out[3]: 2

```python
In [4]: 6|2
```
Out[4]: 6

```python
In [5]: #FACTORIAL OF A NUMBER
```

```python
In [8]: a=int(input("Enter the value:"))
        factorial =1
        if a<0:
            print("No negative numbers in factorial")
        elif a==0:
            print("factorial of 0 is 1")
        else:
            for i in range(1,a+1):
              factorial=factorial * i
            print("The factorial of", a, "is", factorial)
```
```
Enter the value:5
The factorial of 5 is 120
```

```python
In [9]: #PROGRAM TO FIND WHETHER THE NUMBER IS PRIME OR COMPOSITE
```

```python
In [20]: num=int(input("Enter the value:"))
         if num<1:
             print("number should be greater than zero")
         elif num==1:
             print("the number is neither prime nor composite")
         else:
             for i in range(2,(num//2)+1):
                 if (num%i)==0:
                     print("The number is Composite")
                     break
             else:
                 print("The number is Prime")
```
```
Enter the value:8
The number is Composite
```

```python
In [21]: #PROGRAM TO CHECK WHETHER THE STRING IS PALINDROME OR NOT
```

```python
In [24]: str1=input("Enter the string:")
         str2=""
         index=-1
         for i in str1:
             str2+=str1[index]
             index-=1
         print("The given string:", str1)
         print("The given string:", str2)
         if (str1==str2):
             print("Palindrome")
         else:
             print("Not a Palindrome")
```
```
Enter the string:silent
The given string: silent
The given string: tnelis
Not a Palindrome
```

```python
In [25]: #PROGRAM TO FIND THIRD SIDE OF RIGHT ANGLE TRIANGLE WITH TWO SIDES
```

```python
In [26]: from math import sqrt
         a=float(input("Enter the first length:"))
         b=float(input("Enter the second length"))
         right_angle=sqrt(a**2 + b**2)
         print("The hypotunes of right angle triangle is:", right_angle)
```
```
Enter the first length:5
Enter the second length6
The hypotunes of right angle triangle is: 7.810249675906654
```

```python
In [27]: #PROGRAM TO FIND THE FREQUENCY OF EAC CHARACTER PRESENT IN THE GIVEN STRING
```

```python
In [30]: str1=input("Enetr any string:")
         freq=input("Enter the character to check the frequency:")
         count=0
         for i in freq:
             if i==freq:
                 count+=1
         print(freq, "occurs", count, "Times")
```
```
Enetr any string:holiday
Enter the character to check the frequency:o
o occurs 1 Times
```

```python
In [ ]:
```