```
In [1]: 2//3
 Out[1]:
 In [2]:
         6<<2
         24
 Out[2]:
 In [1]:
          6&2
         2
Out[1]:
          6 2
 In [2]:
Out[2]:
         num=int(input('enter a number'))
 In [7]:
          if num<0:</pre>
              print(num)
          elif num==0:
              print(num)
          elif num>0:
              print(num)
          else :
              ('enter a number')
         enter a number78578
         78578
In [30]: n=int(input('enter a number'))
          for i in range(2,int(n**0.5) + 1):
              if (n%1) == 0:
                  print(n,'it is not a prime')
              else :
                  print('its a prime number')
         enter a number8
         8 it is not a prime
In [36]: s = input("Enter a string: ")
          if s==s[::-1]:
              print(s, "is a palindrome")
          else:
              print(s, "is not a palindrome")
         Enter a string: 6567
         6567 is not a palindrome
In [44]:
         import math
          import numpy as np
          side1 = float(input("Enter the length of side 1: "))
          side2 = float(input("Enter the length of side 2: "))
          hypotenuse = (side1**2, side2**2)
          print("The length of the hypotenuse is",(hypotenuse))
```

```
Enter the length of side 1: 743.37
         Enter the length of side 2: 3636.3527
         The length of the hypotenuse is (552598.9569, 13223060.958797289)
         hpp=np.sqrt(hypotenuse)
In [46]:
In [47]:
         hpp
         array([ 743.37 , 3636.3527])
Out[47]:
In [49]:
         fq={}
         s=input('enter a string')
         for char in s:
             if char in fq:
                     fq[char] += 1
             else:
                     fq[char] = 1
         print("The frequency of each character in", s, "is:")
         enter a stringappu
         The frequency of each character in appu is:
In [50]:
         for char, count in fq.items():
             print(char, ":", count)
         a : 1
         p: 2
         u:1
In [ ]:
```