```
In [1]:
          6<<2
Out[1]: 24
 In [2]:
          2//3
Out[2]: 0
 In [3]:
          6&2
Out[3]: 2
In [13]:
          num = 6
          factorial = 1
          if num < 0:
              print ("Factorial does not exist for negative number")
          elif num ==0:
              print ("The factorial of is 1")
          else:
              for i in range (1,num+1):
                  factorial = factorial*i
              print ("The factorial of", num, "is", factorial)
         The factorial of 6 is 720
In [22]:
          num = int(input("enter Number:"))
          if num > 1:
              for n in range(2,num):
                   print (n)
                   if num % n == 0:
                       print ('not prime')
                       break
              else:
                  print('prime')
          elif num == 0 or 1:
              print (num, "number is not prime nor composite number")
              print(num,"it is not prime its composite number")
         enter Number:0
         O number is not prime nor composite number
In [33]:
          def is_palindrome (p):
              return p == p[::-1]
          p = "121"
          string = is_palindrome (p)
          if string:
              print("yes,palindrome")
          else:
              print("no,not palindrome")
         yes, palindrome
In [40]:
          def right_angle (opposite_side,adjacent_side,hypotenuse):
              if opposite_side == str("r"):
    return ("opposite = " + str (((hypotenuse**2) - (adjacent_side**2))*0.5))
              elif adjacent_side == str("r"):
```

return ("adjacent =" + str(((hypotenuse\*\*2) - (opposite\_side\*\*2))\*0.5))

return (" hypotenuse =" + str(((opposite\_side\*\*2) - (adjacent\_side\*\*2))\*0.5))

elif hypotenuse == str("r"):

return "its done"

else:

```
In [48]:
              print (right_angle(4,5,"r"))
print (right_angle(4,"r",6))
print (right_angle("r",5,6))
              hypotenuse =-4.5
              adjacent =10.0
              opposite = 5.5
  In [57]:
               input_string = "Worksheet"
               freq_of_string = {}
               for x in input_string:
    if x in freq_of_string:
                        freq_of_string[x] += 1
                    else:
                        freq_of_string[x] = 1
               print ("characters present in given string:",input_string,str(freq_of_string))
              characters present in given string: Worksheet {'W': 1, 'o': 1, 'r': 1, 'k': 1, 's': 1, 'h': 1, 'e': 2, 't': 1}
    In [ ]:
    In [ ]:
Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js
```