```
In [2]: import numpy as np
         import pandas as pd
 In [3]: 2//3
Out[3]: 0
 In [4]: 6<<2
Out[4]: 24
 In [5]: 6&2
Out[5]: 2
 In [6]: 6|2
Out[6]: 6
 In [7]: n = int (input ("Enter a number: "))
         factorial = 1
         if n >= 1:
                        for i in range (1, n+1):
                                        factorial = factorial *i
         print ("Factorial of the given number is ", factorial)
         Enter a number: 7
         Factorial of the given number is 5040
 In [ ]:
 In [ ]:
 In [8]: num = 22
         if num > 1:
              for i in range(2, int(num/2)+1):
                  if (num % i) == 0:
    print(num, "is a Composite number")
                      break
              else:
                  print(num, "is a Prime number")
         else:
              print(num, "is a Composite number")
         22 is a Composite number
 In [9]: def isPalindrome(s):
              return (s)
          s = "pop"
         ans = isPalindrome(s)
         if ans:
              print("Yes")
         else:
             print("No")
In [18]: def pythagoras(opposite_side,adjacent_side,hypotenuse):
                  if opposite_side == str("x"):
    return ("Opposite = " + str(((hypotenuse**2) - (adjacent_side**2))**0.5))
                  elif adjacent_side == str("x"):
                      return ("Adjacent = " + str(((hypotenuse**2) - (opposite_side**2))**0.5))
                  elif hypotenuse == str("x"):
                      return ("Hypotenuse = " + str(((opposite_side**2) + (adjacent_side**2))**0.5))
                  else:
                      return ("Done")
         print(pythagoras(1,4,'x'))
         print(pythagoras(1,'x',8))
         print(pythagoras('x',4,8))
         print(pythagoras(1,4,8))
```

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