```
# program to find the factorial of a number
          num=int(input("Enter the number : "))
          if num<0:</pre>
              print("factorial of negative numbers does not exist.")
          else:
              if num==0:
                  print("The factorial of 0 is 1.")
              else:
                  for i in range(1, num+1):
                      fact=fact*i
                  print("The factorial of ", num, " is : ", fact)
         Enter the number : 5
         The factorial of 5 is: 120
          # program to find whether a given number is prime or composite?
          num1=int(input("Enter the number : "))
          if num1>1:
              for i in range(2, num1):
                  if(num1%i)==0:
                      print(num1," is not a prime number.")
              else:
                  print(num1," is a prime number.")
          else:
              print(num1," is not a prime number.")
In [15]:
          # program to find whether the given string is palindrome or not?
          x="malayalam"
          W=" "
          for i in x:
              w=i+w
          if (x==w):
              print("yes")
          else:
              print("No")
         yes
In [18]:
          # program to find the third side of a right angled triangle from the other two sides.
          import math
          a=float(input("Enter the first side of the triangle : "))
          b=float(input("Enter the second side of the triangle : "))
          c=math.sqrt(a**2+b**2)
          print(" The third side of the given right angled triangle having sides ",a," and ",b," is : ",c)
         Enter the first side of the triangle : 3
         Enter the second side of the triangle : 4
          The third side of the given right angled triangle having sides 3.0 and 4.0 is: 5.0
In [19]:
          # program to find the frequency of each element in the given string
          test_str="GoGoaGone"
          res={}
          for keys in test_str:
              res[keys]=res.get(keys,0)+1
          print("Count of all characters in GoGoaGone is : \n" + str(res))
         Count of all characters in GoGoaGone is :
         {'G': 3, 'o': 3, 'a': 1, 'n': 1, 'e': 1}
 In [ ]:
```