Question.11

Question.12

```
In [2]:
    X = int(input("Enter the Number: "))
    count=0
    i=1
    while i<=X:
        if X%i==0:
            count=count+1

        i=i+1

if count==2:
        print("Its a Prime number")

elif count>2:
        print("Its a Composite number")

else:
    print("The number is neither Prime nor composite")
```

Enter the Number: 11 Its a Prime number

Question.13

```
In [3]: x=input("Enter String: ")
y=x[-1::-1]

if (x==y):
    print("Palindrome")

else:
    print("Not Palindrome")
```

Enter String: naman Palindrome

Question.14

```
In [4]:
         #for finding hypotenuse.
         from math import sqrt
         x = float(input("Enter x: "))
         y = float(input("Enter y: "))
         z = sqrt(x**2 + y**2)
         print("The length of hypotenuse is:", z)
        Enter x: 6
        Enter y: 8
        The length of hypotenuse is: 10.0
In [5]:
         #for finding side other than hypotenuse
         from math import sqrt
         a = float(input("Enter hypotenuse: "))
         b = float(input("Enter side: "))
         c = sqrt(a**2 - b**2)
         print ("The length of third side is:", c)
        Enter hypotenuse: 10
        Enter side: 6
        The length of third side is: 8.0
       Question.15
In [6]:
         a = input("Enter the string: ")
         d = dict()
         for i in a:
             if i in d:
                 d[i] = d[i] + 1
                d[i] = 1
```

```
print(d)
         Enter the string: good morning how are you
          {'g': 2, 'o': 5, 'd': 1, ' ': 4, 'm': 1, 'r': 2, 'n': 2, 'i': 1, 'h': 1, 'w': 1, 'a': 1, 'e': 1, 'y': 1, 'u': 1}
In [ ]:
```