Q.No. 11

In [12]:

```
print("Enter the Number: ")
num = int(input())

fact = 1
i = 1
while i<=num:
    fact = fact*i
    i = i+1

print("\nFactorial =", fact)
```

```
Enter the Number:
5

Factorial = 120
```

Q.No. 12

In [16]:

```
num = 13
# If given number is greater than 1
if num > 1:
    # Iterate from 2 to n / 2
    for i in range(2, int(num/2)+1):
        # If num is divisible by any number between
        # 2 and n / 2, it is not prime
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")
else:
    print(num, "is not a prime number")
```

```
13 is a prime number
```

In [17]:

```
num = 18
# If given number is greater than 1
if num > 1:
    # Iterate from 2 to n / 2
    for i in range(2, int(num/2)+1):
        # If num is divisible by any number between
        # 2 and n / 2, it is not prime
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")
else:
    print(num, "is not a prime number")
```

```
18 is not a prime number
```

Q.No. 13

In [18]:

```
# function which return reverse of a string

def isPalindrome(s):
    return s == s[::-1]


# Driver code
s = "malayalam"
ans = isPalindrome(s)

if ans:
    print("Yes")
else:
    print("No")
```

```
Yes
```

Q.No. 14

In [19]:

```
import math

a = float(input("Enter base: "))
b = float(input("Enter height: "))
x = float(input("Enter angle: "))

c = math.sqrt(a ** 2 + b ** 2)

print("Hypotenuse =", c)
```

```
Enter base: 4
Enter height: 3
Enter angle: 90
Hypotenuse = 5.0
```

Q.No. 15

In [20]:

```
string = "Yolo Life"

for i in string:
    frequency = string.count(i)
    print(str(i) + ": " + str(frequency), end=", ")
```

```
Y: 1, o: 2, l: 1, o: 2,  : 1, L: 1, i: 1, f: 1, e: 1,
```