In [2]:
```python
#Lap03-functions and modules
#name:ANNAPOORNIMA
#Reg no:225229101
def prime(num):
    for n in range(2,int(num**0.5)+1):
        if num%n==0:
            return 'not an prime number'
    return'prime number'
for i in range(1,101):
    print(i,"is",(prime(i)))
```

```
1 is prime number
2 is prime number
3 is prime number
4 is not an prime number
5 is prime number
6 is not an prime number
7 is prime number
8 is not an prime number
9 is not an prime number
10 is not an prime number
11 is prime number
12 is not an prime number
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40 is not an prime number
41 is prime number
42 is not an prime number
43 is prime number
44 is not an prime number
45 is not an prime number
46 is not an prime number
```

```
47 is prime number
48 is not an prime number
49 is not an prime number
50 is not an prime number
51 is not an prime number
52 is not an prime number
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89 is prime number
90 is not an prime number
91 is not an prime number
92 is not an prime number
93 is not an prime number
94 is not an prime number
95 is not an prime number
96 is not an prime number
97 is prime number
98 is not an prime number
99 is not an prime number
100 is not an prime number
```

In [3]:
```python
def add(num1,num2):
    return num1+num2
def subtract(num1,num2):
    return num1-num2
def multiply(num1,num2):
    return num1*num2
def divide(num1,num2):
    return num1/num2
print("Please select operation -\n" \
        "+""Add\n" \
        "-""Subtract\n" \
        "*"" Multiply\n" \
        "/"" Divide\n")
select = (input("Select operations from+,-,*,/ :"))
n1 = int(input("Enter first number: "))
n2 = int(input("Enter second number: "))
if select == "+":
    print(n1, "+", n2, "=",
                    add(n1, n2))
elif select == "-":
    print(n1, "-", n2, "=",
                    subtract(n1, n2))
elif select == "*":
    print(n1, "*", n2, "=",
                    multiply(n1, n2))
elif select == "/":
    print(n1, "/", n2, "=",
                    divide(n1, n2))
else:
    print("Invalid input")
```

```
Please select operation -
+Add
-Subtract
* Multiply
/ Divide

Select operations from+,-,*,/ :+
Enter first number: 7
Enter second number: 9
7 + 9 = 16
```

In [5]:
```python
def factorial(n):
    res=1
    if  n==0:
        return 'Factorial of 0 is 1'
    if n<0:
        return 'factorial doesnt exist'
    else:
        for i in range(1,n+1):
            res*=i
        return res
print(" Factorial of given number",factorial(4))
```

 Factorial of given number 24

In [ ]: