In [ ]:

```
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LAB-3
```

In [2]:

```python
def prime():
    n=int(input("Enter an integer:"))
    if(n%2==0 and n!=2):
        print("n is not a prime number")
    elif(n==1):
        print("Neither prime nor a composite")
    else:
        print (n,"is a prime number")
    for num in range(1,101):
        if num > 1 :
            for i in range(1,num):
                if (num%i==0):
                    continue
            else:
                print(num)
prime()
```

```
Enter an integer:2
2 is a prime number
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In [1]:

```python
def add(a,b):
    result=a+b
    print("Result=",result)
def sub(a,b):
    result=a-b
    print("Result=",result)
def mul(a,b):
    result=a*b
    print("Result=",result)
def div(a,b):
    result=a/b
    print("Result=",result)
while True:
    opr=input("Enter the operator <q to quit>:")
    if(opr=='q'):
        break
    else:
        a=int(input("Enter value:"))
        b=int(input("Enter value :"))
        if(opr=='+'):
            add(a,b)
        elif(opr=='-'):
            sub(a,b)
        elif(opr=='*'):
            mul(a,b)
        elif(opr=='/'):
            div(a,b)
```

```
Enter the operator <q to quit>:+
Enter value:20
Enter value :10
Result= 30
Enter the operator <q to quit>:-
Enter value:50
Enter value :30
Result= 20
Enter the operator <q to quit>:*
Enter value:20
Enter value :10
Result= 200
Enter the operator <q to quit>:/
Enter value:7
Enter value :7
Result= 1.0
Enter the operator <q to quit>:q
```

In [6]:

```python
def factorial (n):
    if n<0:
        return ("Negative number does not exist")
    elif(n==0 or n==1):
        return 1
    else:
        fact=1
    while(n>1):
        fact*=n
        n-=1
    return(fact)
n=int(input("Value:"))
print("Factorial of",n, "is", factorial(n))
```

```
Value:5
Factorial of 5 is 120
```

In [10]:

```python
import factorialdefinition
factorialdefinition.factorial(5)
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
Input In [10], in <cell line: 1>()
----> 1 import factorialdefinition
      2 factorialdefinition.factorial(5)

ModuleNotFoundError: No module named 'factorialdefinition'
```