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Labsheet3

```
In [1]: def isprime(n):
        for i in range(2,int(n**0.5)+1):
            if n%i==0:
                return False
        return True
n=int(input("enter a number to check : "))
if(n>100):
    print("enter num below 100 ")
else:
    print(isprime(n))

for num in range(1,100+1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                break
        else:
            print(num)
```

enter a number to check : 7

True

2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97

```
In [2]: def add(a,b):
        result=a+b
        print('a=',a,'b=',b,'a+b=',result)
def mul(a,b):
    result=a*b
    print('a=',a,'b=',b,'a*b=',result)
def sub(a,b):
    result=a-b
    print('a=',a,'b=',b,'a-b=',result)
def div(a,b):
    result=a/b
    print('a=',a,'b=',b,'a/b=',result)
while True:
    opr=input("enter opr<# to quit>:")
    if(opr=="#"):
        break
    o1=int(input("enter the op1"))
    o2=int(input("enter the op2"))
    if(opr=="+"):
        add(o1,o2)
    elif(opr=="-"):
        sub(o1,o2)
    elif(opr=="*"):
        mul(o1,o2)
    elif(opr=="/"):
        div(o1,o2)
```

```
enter opr<# to quit>:+
enter the op15
enter the op22
a= 5 b= 2 a+b= 7
enter opr<# to quit>:-
enter the op18
enter the op26
a= 8 b= 6 a-b= 2
enter opr<# to quit>:*
enter the op12
enter the op24
a= 2 b= 4 a*b= 8
enter opr<# to quit>:/
enter the op15
enter the op23
a= 5 b= 3 a/b= 1.6666666666666667
enter opr<# to quit>:#
```

```
In [4]: def fact(n):
        if n==0:
            return 1
        else:
            return n* fact(n-1)
n=int(input("enter the integer: "))
print(fact(n))
```

```
enter the integer: 5
120
```

In []: