

1.Check whether the number is divisible by 2,3 and 5 or only by 2,only by 3 or only by 5.

```
n=int(input("enter a number"))
if(n%2==0 and n%3==0 and n%5==0):
    print(n," is divisible by 2,3,5")
elif(n%2==0 and n%3==0):
    print(n," is divisible by 2,3")
elif(n%2==0 and n%5==0):
    print(n," is divisible by 2,5")
elif(n%3==0 and n%5==0):
    print(n," is divisible by 5,5")
elif(n%2==0):
    print(n," is divisible by 2")
elif(n%3==0):
    print(n," is divisible by 3")
else:
    print(n," is divisible by 5")
```

output:
enter a number 2
2
2 is divisible by 2

2.Squares of numbers in a given range.(use for)

```
start=int(input("enter start value "))
end=int(input("enter end value"))
for i in range(start,end+1):
    print(i*i)
```

output:
enter start value 4
enter end value 9
16
25
36
49
64
81

3.Count digits of number.(use while)

```
n=int(input("enter a number"))
c=0
if n<0:
    n*=-1
while n>0:
    n=n//10
    c+=1
print("no of digits is ",c)
```

output:
enter a number 67

no of digits is 2

4. Validate whether the input given by user lies in a range or not.(use for..else/while..else)

```
start=int(input("enter starting range"))
end=int(input("enter ending range"))
n=int(input("enter a value"))
```

```
while(n<start or n>end):
    print(n," is not in the range")
    break
else:
    print(n," is in the range")
```

output:
enter starting range5
enter ending range6
enter a value7
7 is not in the range

5.Take 10 inputs from user and print only the positive ones on screen.(use pass)

```
li=list()
for i in range(10):
    n=int(input("enter a number"))
    li.append(n)
for n in li:
    if(n<0):
        pass
    else:
        print(n)
```

output:
enter a number7
enter a number8
enter a number4
enter a number5
enter a number3
enter a number5
enter a number2
enter a number1
enter a number8
enter a number4
7
8
4
5
3
5
2
1

