

number divisible by 3 and 5

```
num=int(input("enter number:"))
if num % 5==0:
    print("number is divisible by 5")
elif num % 3 == 0:
    print ("number is divisible by 3")
else :
    print( "number is not divisible by 3 and 5")
```

```
enter number:80
number is divisible by 5
```

multiple of 10

```
num=int(input("enter number:"))
if num % 10 ==0:
    print("number is multiple of 10")
elif num % 10!=0:
    print("number is not multiple of 10")
else:
    print("invalid number")
```

```
enter number:43
number is not multiple of 10
```

first 10 numbers

```
for num in range(1,11):
    print(num)
```

```
1
2
3
4
5
6
7
8
9
10
```

multiple of 4

```
for num in range (1,14):
    print(4* num)
```

4
8
12
16
20
24
28
32
36
40
44
48
52

vowel or consonants

```
input_string = input ("enter a string:")
for char in input_string:
    if char in "aeiouAEIOU":
        print(char,"is a vowel")
    elif char in"bcdfghjklmnpqrstvwxyzBCDEFGHJKLMNPQRSTUVWXYZ":
        print (char ,"is a consonants")
    else:
        print (char ,"is a special character")

enter a string:w
w is a consonants
```

** sum of even number between 1 to 20

```
sum_even = 0
for num in range(1,21):
    if num % 2 ==0:
        sum_even+=num
print ("sum of even numbers from 1 to 20 is:",sum_even)

sum of even numbers from 1 to 20 is: 110
```

swapping

```
x=input("enter value of x:")
y=input("enter value of y:")
temp=x
x=y
y=temp
print(" the value of x and y after swapping:",x,y)
```

```
enter value of x:78
enter value of y:89
the value of x and y after swapping: 89 78
```

GCD of 2 numbers

```
print("enter two numbers:")
n1=int(input())
n2=int(input())
if n1>n2:
    lcm =n1
else :
    lcm = n2
while True :
    if lcm %n1==0 and lcm % n2==0:
        break
    else:
        lcm=lcm+1
print("LCM = ",lcm)
```

enter two numbers:

4

7

LCM = 8
LCM = 9
LCM = 10
LCM = 11
LCM = 12
LCM = 13
LCM = 14
LCM = 15
LCM = 16
LCM = 17
LCM = 18
LCM = 19
LCM = 20
LCM = 21
LCM = 22
LCM = 23
LCM = 24
LCM = 25
LCM = 26
LCM = 27
LCM = 28

smallest two number

```
num1=int(input("enter first number:"))
num2=int(input("enter second number"))
```

```
if num1<num2:
    print("smallest number is num1")
elif num2<num1:
    print("smallest number is num2")
else:
    print("both are equal")
```

```
enter first number:4
enter second number89
smallest number is num1
```

multiple of 6

```
num=6
limit =60
while num<= limit:
    print(num)
    num+=6
```

```
6
12
18
24
30
36
42
48
54
60
```

reverse number

```
num=12345
reverse = 0
while num>0:
    reverse=reverse*10+ num%10
    num//=10
print("reverse")

reverse
```

characters in string

```
string = "hello,world!"
index = 0
while index < len(string):
    print(string[index])
    index+=1
```

```
h  
e  
l  
l  
o  
,  
w  
o  
r  
l  
d  
!
```

count 5 numbers

```
count =0  
while count<5:  
    print(count)  
    count=count+1
```

```
0  
1  
2  
3  
4
```

string is empty or not

```
string =input("enter a string")  
if len(string)==0:  
    print("string is empty")  
else:  
    print("string is not empty")
```

```
enter a string"  
string is not empty
```