

```
#1
num=float(input("Enter the number:"))
if num>0:
    print("Positive number")
elif num<0:
    print("Negative number")
else:
    print("the number is zero")
```

```
Enter the number:0
the number is zero
```

```
#2
num1=int(input("Enter first number:"))
num2=int(input("Enter second number:"))
num3=int(input("Enter third number:"))
if num1>=num2 and num1>=num3:
    print("Largest number is:",num1)
elif num2>=num3:
    print("Largest number is:",num2)
else:
    print("Largest number is:",num3)
```

```
Enter first number:12
Enter second number:55
Enter third number:67
Largest number is: 67
```

```
#3
num=int(input("Enter the number: "))
if num % 2 ==0:
    print("even number")
else:
    print("odd number")
```

```
Enter the number: 31
odd number
```

```
#4
num=int(input("Enter the number:"))
if num % 2==0 and num % 3==0:
    print(f"{num} is divisible by 2 and 3")
else:
    print(f"{num} is not divisible by 2 and 3")
```

```
Enter the number:24
24 is divisible by 2 and 3
```

```
#5
year=int(input("Enter the number:"))
if (year % 4==0 and year % 100!=0) or (year % 400==0):
```

```
    print("leap year")
else:
    print("Not leap year")
```

Enter the number:2024
leap year

```
#6
num=int(input("Enter the number:"))
if num>10:
    print("hello")
else:
    print("Good bye")
```

Enter the number:24
hello

```
#7
num=int(input("Enter the number:"))
if (num % 5==0) and (num % 10!=0):
    print(f"{num} is divisible by 5 but not 10")
else:
    print(f"{num} doesn't satisfy the conditon")
```

Enter the number:60
60 doesn't satisfy the conditon

```
#8
number=int(input("Enter the number:"))
if 100 <= number <= 200:
    print(f"{number} is between 100 and 200")
else:
    print(f"{number} is not between 100 and 200")
```

Enter the number:100
100 is between 100 and 200

```
#9
num=int(input("Enter the number: "))
if 50 < num < 100:
    print(f"{num} in between 50 and 100 (exclusive)")
else:
    print(f"{num} is not satisfied")
```

Enter the number: 67
67 in between 50 and 100 (exclusive)

```
#10
num=int(input("Enter the number:"))
if (num > 100) and (num < 500):
    print("print a message")
```

```
else:  
    print("not satisfy the condition")
```

```
Enter the number:224  
print a message
```

```
#11  
for number in range(1,11):  
    print(number)
```

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

```
#12  
for number in range(2,21,2):  
    print(number)
```

```
2  
4  
6  
8  
10  
12  
14  
16  
18  
20
```