1.Check if a number is positive,negative,or zero

```
a=int(input("enter a number:"))
if a>0:
  print("number is positive")
elif a<0:
  print("number is negative ")
else:
  print("number is true")
```

OUTPUT:

```
enter a number:-9
number is negative
```

2.Find the largest among three numbers

```
a=int(input("enter a number:"))
b=int(input("enter b number:"))
c=int(input("enter c number:"))
if (a>b and a>c):
    print("The largest number is:",a)
elif (b>a and b>c):
    print("The largest number is:",b)
elif (c>a and c>b):
     print("The largest number is:",c)
```

```
else:

    print("number is true")else:

    print("number is true")
```

OUTPUT:

enter a number:10

enter b number:20

enter c number:30

The largest number is: 30

3. **Check if a character is a towel**

```
a=input("enter a character:")

vowels=['a','e','i','o','u']

if a in vowels:

    print("character is vowel")

else:

    print("character is  not a vowel")
```

OUTPUT:

enter a character: d

character is not a vowel

4.**Check whether a number is even and divisible by 5**

```
a=int(input("Enter a number:"))

if(a%2==0 and a%5==0):

  print("condition is true")
```

```
else:
   print("condition is false")
```

OUTPUT:

Enter a number: 10

condition is true

5. Electricity Bill Calculator

```
bill=int(input("enter a amount of bill:"))
if(bill<100):
 total=bill*5
elif(bill<200):
 total=bill*7
else:
 total=bill*10
print("total amount of bill after multiplication:",total)
```

OUTPUT:

enter a amount of bill:300

total amount of bill after multiplication: 3000

6.student grade calculation

```
marks = int(input("Enter marks: "))
if marks >= 35:
   if marks >= 92 and marks <= 100:
      print("A+ grade")
```

```python
    elif marks >= 71 and marks < 92:

        print("B grade")

    elif marks >= 51 and marks < 71:

        print("C grade")

    elif marks >= 35 and marks < 51:

        print("You just passed with pass marks")

    else:

        print("You can enter only up to 100")

else:

    print("You are failed")
```

OUTPUT:

Enter marks: 99

A+ grade

7.check login credentials

```python
username="devi"

password=1305

user_name=str(input("enter a username:"))

pass_word=str(input("enter a password:"))

check1=username==username

check2=password==password

valid=check1*check2

match="succefull login "* valid+"failed login"*(1-valid)
```

```
print(match)
```

OUTPUT:

enter a username:likki

enter a password:1822

succefull login

8.simple calculator

```
a=5
b=10
c=15
print(a+b)
print(a*b)
print(a-b)
print(a/b)
```

OUTPUT:

15

50

-5

0.5

9.check if number in list

```
a=int(input("enter a number:"))
list=[10,20,30,40,50]
if(a in  list):
```

```python
    print("number is in a list")
else:
  print("number is not in a list")
```

OUTPUT:

enter a number:30

number is in a list

10.check string is a palindrome or not

```python
str1=input("enter a string:")
if str1==str1[::-1]:
 print("str is a palindrome")
else:
 print("str is not a palindrome")
```

OUTPUT:

enter a string: devi

str is not a palindrome.

11.check if a number is within a range

```python
num=int(input("enter a number:"))
num1=10
num2=50
if(num1<=50 and num2>=10):
 print("num is in between 1 and 50")
else:
```

print("num is not in between 1 and 50")

OUTPUT:

enter a number: 20

num is in between 1 and 50

12.Determine age group

```
age=int(input("enter a age:"))
if(age<13):
 print("child")
elif(age>13 and age<19):
    print("teen")
elif(age>19 and age<59):
    print("adult")
else:
    print("senior")
```

OUTPUT:

enter a age:80

senior.

13.compare two strings

```
str1="devi"
str2="likki"
print(str1.upper())
print(str2.lower())
```

OUTPUT:

DEVI

likki

14.Traffic Light Simulator

```
signal=input("enter a signal color:")
if(signal=="green"):
  print("go")
elif(signal=="yellow"):
  print("get ready to go")
else:
    print("stop")
```

OUTPUT:

enter a signal color: red

stop

15.ATM Withdrawal Simulation

```
aval_balance=10000
withdrawal_amt=1000
total_amount=(withdrawal_amt*100)-aval_balance
print("aval_balance:",total_amount)
```

OUTPUT:

aval_balance: 90000