```
#Addition of two number
num1 = 30
num2=40
print("the sum of two number is:",num1+num2)
the sum of two number is: 70
#Another method
number1=30
number2=40
sum=number1+number2
print("the sum of 2 number is:",sum)
the sum of 2 number is: 70
num1=int(input("Enter the num1:"))
num2=int(input("Enter the num2:"))
sum=num1+num2
print("the sum of 2 number is:", sum)
Enter the num1: 20
Enter the num2: 30
the sum of 2 number is: 50
# Find Square Root
num1=64
sq=num1**(1/2)
print("the squarerrot of given no is:",+sq)
the squarerrot of given no is: 8.0
num1=int(input("enter the num1:"))
sq=num1**(1/2)
print("the square root of given no is:",sq)
enter the num1: 81
the square root of given no is: 9.0
```

#Swapping two no

```
P = int( input("Please enter value for P: "))
Q = int( input("Please enter value for Q: "))

temp = P
P = Q
Q = temp

print ("The Value of P after swapping: ", P)
print ("The Value of Q after swapping: ", Q)

Please enter value for P: 10
Please enter value for Q: 20

The Value of P after swapping: 20
The Value of Q after swapping: 10
```

check no Postive, Negative or zero

```
def NumberCheck(a):
    if a > 0:
        print("Number given by you is Positive")
    elif a < 0:
        print("Number given by you is Negative")
    else:
        print("Number given by you is zero")
a = float(input("Enter a number as input value: "))
NumberCheck(a)
Enter a number as input value: 1
Number given by you is Positive</pre>
```

Even Or odd no

```
num = int(input("Enter a number: "))
if (num % 2) == 0:
    print("Even number")
else:
    print("Odd number")
Enter a number: 1
```

Odd number

Leap year

```
def CheckLeap(Year):
    if((Year % 400 == 0) or
        (Year % 100 != 0) and
        (Year % 4 == 0)):
        print("Given Year is a leap Year");
    else:
        print ("Given Year is not a leap Year")
    Year = int(input("Enter the year: "))
    CheckLeap(Year)
    Enter the year: 2004
    Given Year is a leap Year
```

Prime number or not

```
def PrimeChecker(a):
    if a > 1:
        for j in range(2, int(a/2) + 1):
            if (a % j) == 0:
                 print(a, "is not a prime number")
            break

    else:
        print(a, "is a prime number")

else:
    print(a, "is not a prime number")

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

PrimeChecker(a)

Enter an input number: 3

3 is a prime number
```

Factorial no

```
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
   print(" Factorial does not exist for negative numbers")
elif num == 0:
   print("The factorial of 0 is 1")
   for i in range(1, num + 1):
       factorial = factorial*i
   print("The factorial of", num, "is", factorial)
Enter a number: 5
The factorial of 5 is 120
i = 1
while i <= 5:
   j = 1
   while j <= i:
        print("*", end="")
        j = j + 1
    print()
    i = i + 1
**
***
****
****
i = 1
while i \le 5:
    j = 1
   while j <= i:
        print(i, end="")
        j = j + 1
    print()
    i = i + 1
1
22
333
4444
55555
i = 1
while i \le 5:
   j = 1
   while j <= i:
        print(j, end="")
        j = j + 1
```

```
print()
  i = i + 1

1
12
123
1234
12345
```

DATE AND TIME

```
import datetime

current_time = datetime.datetime.now()

print("Time now at greenwich meridian is:", current_time)

Time now at greenwich meridian is: 2024-09-05 16:50:40.628333
```

Largest number in array

```
def largest(arr, n):
    max = arr[0]

    for i in range(1, n):
        if arr[i] > max:
            max = arr[i]
    return max

arr = [100, 300, 400, 900, 98]
n = len(arr)
Ans = largest(arr, n)
print("Largest in given array ", Ans)
Largest in given array 900
```