To find sum of two numbers

In [4]:

```
print(":THARUN  :".center(20))
a=int(input("enter a num:"))
b=int(input("enter a num:"))
sum=a+b
print(sum)
```

```
     :THARUN  :
enter a num:5
enter a num:6
11
```

To find the sum of two numbers using function

In [5]:

```
print(":THARUN  :".center(20))
def calculate_sum(num1,num2):
    return num1+num2
num1=int(input("enter a number:"))
num2=int(input("enter a number:"))
sum=num1+num2
print("sum:",sum)
```

```
     :THARUN  :
enter a number:5
enter a number:7
sum: 12
```

To check the number even or odd

In [1]:

```
print(": THARUN  :".center (20))
num=int(input("enter a number:"))
if num%2==0:
    print("num is even")
else:
    print("num is odd")
```

```
    : THARUN  :
enter a number:5
num is odd
```

To check the number positive or negative

In [2]:

```
print(":THARUN  :".center(20))
num=int(input("enter an integer:"))
if num>0:
    print("num is positive")
elif num<0:
    print("num is odd ")
else:
    print("num is zero")
```

```
     :THARUN  :
enter an integer:9
num is positive
```

In [ ]:

```

```

To find maximum of two numbers

In [8]:

```
print(":THARUN  :".center(20))
num1=5
num2=9
result=max(num1,num2)
print("maximum:",result)
```

```
     :THARUN  :
maximum: 9
```

To find minimum of two numbers

In [10]:

```
print(" THARUN  ".center(20))
num1=5
num2=9
result=min(num1,num2)
print("minimum:",result)
```

```
      THARUN
minimum: 5
```

GCD of two number

In [4]:
```
print(":THARUN:".center(20))
import math
num1=int(input("enter a number:"))
num2=int(input("enter a number:"))
result=math.gcd(num1,num2)
print("result:",result)
```

```
      :THARUN:
enter a number:4
enter a number:6
result: 2
```

Guess num using random

In [7]:
```
print(":THARUN:".center(20))
import random
number=random.randint(1,10)
guess=0
while guess!=number:
    guess=int(input("guess a number"))
    if guess<number:
        print("guess a higher number")
    elif guess>number:
        print("guess a lower number")
    else:
        print("you guessed the correct number",number)
```

```
      :THARUN:
guess a number7
guess a lower number
guess a number7
guess a lower number
guess a number5
guess a lower number
guess a number5
guess a lower number
guess a number8
guess a lower number
guess a number4
you guessed the correct number 4
```

Sum of two numbers

In [1]:
```
print(":THARUN:".center(20))
a=int(input("enter a number:"))
b=int(input("enter a number:"))
sum=a+b
print(sum)
```

```
      :THARUN:
enter a number:5
enter a number:5
10
```

Sum of two numbers using functions

In [2]:
```
print(":THARUN:".center(20))
def calculate_sum(num1,num2):
    return num1+num2
num1=int(input("enter a number:"))
num2=int(input("enter a number:"))
sum=num1+num2
print("sum:",sum)
```

```
      :THARUN:
enter a number:5
enter a number:5
sum: 10
```

To find prime numbers

In [5]:

```
print(":THARUN  :".center(20))
num=int(input("enter a number:"))
count=0
for i in range(1,num+1):
    if(num%i==0):
        count +=1
if(count==2):
    print("the given number is prime")
else:
    print("the given number is not prime")
```

```
     :THARUN  :
enter a number:4
the given number is not prime
```

To find pallindrom sequence

In [6]:

```
print(":THARUN  :".center(20))
num=int(input("enter a number:"))
num_str = str(num)
if num_str == num_str[::-1]:
    print("num is not a pllindrome")
else:
    print("num is not a pallindrome")
```

```
     :THARUN  :
enter a number:345
num is not a pallindrome
```

Reverse num in string

In [1]:
```
print(":THARUN:".center(20))
num_str="6789"
reversed_str=num_str[::-1]
print("reversed number:",reversed_str)
```

```
      :THARUN:
reversed number: 9876
```

Swap 2 number

In [3]:
```
print(":THARUN:".center(20))
a=int(input("a="))
b=int(input("b="))
a,b=b,a
print("after swapping:")
print("a:",a)
print("b:",b)
```

```
      :THARUN:
a=5
b=5
after swapping:
a: 5
b: 5
```