# print hello world

```
In [34]: print("hello world")
```

```
hello world
```

# 1.use all operators in two variables

```
In [3]: def operation():
    a=int(input("enter the number for a:"))
    b=int(input('enter the number for b:'))
    c=a+b
    print("addition of two variable is:",c)
    d=a-b
    print("subtraction of two variable is:",d)
    e=a*b
    print("multiplication of two number is:",e)
    f=a//b
    print("division of two numbers is:",f)
operation()
```

```
enter the number for a:4
enter the number for b:8
addition of two variable is: 12
subtraction of two variable is: -4
multiplication of two number is: 32
division of two numbers is: 0
```

# 2.find simple interest ¶

```
In [4]: amt=int(input("enter the principle amount:"))
time=int(input("enter the time:"))
rate=3.5

def simple_interest(amount,time,rate):

    total_interest=(amt*time*rate)/100
    print("total_interest are:",total_interest)
simple_interest(amt,time,rate)
```

```
enter the principle amount:4500
enter the time:2
total_interest are: 315.0
```

### 3.program to calculate salary,input basic pay,PRA=16%B.P.,DA=19%B.P.,PF=10%,HRA=15%,net=bas

In [2]:
```python
print("salary program")
name=str(input("enter the name of the employee:"))
basic=int(input("enter the basc salary of the employee:"))
DA=float(basic*0.19)
HRA=float(basic*0.15)
PF=float(basic+DA)*0.10
netpay=float(basic+DA+HRA)
grosspay=float(netpay-PF)
print("NAME OF THE EMPLOYEE:",name)
print("BASIC SALARY:",basic)
print("DEARNESS ALLOW:",DA)
print("HOUSE RENT ALLOW:",HRA)
print("NET SALARY PAY:",netpay)
print("RPOVIDENT FUND:",PF)
print("GROSS PAYMENT:",grosspay)
```

```
salary program
enter the name of the employee:Preeti
enter the basc salary of the employee:20000
NAME OF THE EMPLOYEE: Preeti
BASIC SALARY: 20000
DEARNESS ALLOW: 3800.0
HOUSE RENT ALLOW: 3000.0
NET SALARY PAY: 26800.0
RPOVIDENT FUND: 2380.0
GROSS PAYMENT: 24420.0
```

# 4.calculate the grades

```python
In [3]:  print("enter the marks of five subjects:")
         eng=int(input("marks of english:"))
         maths=int(input("marks of maths:"))
         hindi=int(input("marks of hindi:"))
         sst=int(input("marks of sst:"))
         science=int(input("marks of scinece:"))
         total=eng+maths+sst+hindi+science
         print("total marks is:",total)
         avg=total//5
         print("average marks:",avg)
         if(0<=avg<=100):
             if(avg>=90):
                 print("grade:A")
             elif(avg>=80):
                 print("grade:B")
             elif(avg>=70):
                 print("grade:C")
             elif(avg>=60):
                 print("grade:D")
             else:
                 print("grade:F")
         else:
             print("invalid marks/////")
```

```
enter the marks of five subjects:
marks of english:98
marks of maths:99
marks of hindi:92
marks of sst:93
marks of scinece:90
total marks is: 472
average marks: 94
grade:A
```

# 5.Print your name 10 times

```python
In [8]:  for i in range(1,11):
             print(i,"preeti")
```

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

# 6.Print the sum integers till 5

```
In [13]: sum=0
         for i in range(5):
             sum=sum+i
         print(sum)
```

```
10
```

# 7.Program to input the five numbers from the users and print the sum of those numbers

```
In [14]: sum=0
         for i in range(5):
             num=int(input("enter the number:"))
             sum=sum+num
         print(sum)
```

```
enter the number:4
enter the number:8
enter the number:2
enter the number:9
enter the number:1
24
```

# 8.Program to print even numbers till 20

```
In [16]: for i in range(1,20):
             if(i%2==0):
                 print(i)
```

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

# 9.Print numbers that are divisible by 5 till 50

In [17]:
```python
for i in range(1,50):
    if(i%5==0):
        print(i)
```

```
5
10
15
20
25
30
35
40
45
```

# 10.Program to print the sum of even numbers and odd numbers till 20

In [20]:
```python
even=0
odd=0
for i in range(20):
    if(i%2==0):
        even=even+i
    else:
        odd=odd+i
print("sum of even numbers:",even)
print("sum of odd numbers:",odd)
```

```
sum of even numbers: 90
sum of odd numbers: 100
```

# 11.Program to print the sum of the digits of a number

In [26]:
```python
num=int(input("enter the number:"))
sum=0
while(num!=0):
    if(num>0):
        m=num%10
        sum=sum+m
        num=num//10
print(sum)
```

```
enter the number:145
10
```

# 12.Armstrong number: is a number that equals the sum of its cube of its individual digits . For

## example: 153=1^3+5^2+3^3   Program to find

```
In [28]: n=int(input("enter the number:"))
         t=n
         sum=0
         while(n!=0):
             if(n>0):
                 m=n%10
                 sum=sum+m*m*m
                 n=n//10
         print(sum)
         if(sum==t):
             print("it is a armstrong number")
         else:
             print("its not a armstrong number")
```

```
enter the number:153
153
it is a armstrong number
```

# 13.To find whether the number is prime or not

```
In [33]: num=int(input("enter the number:"))
         flag=False
         if(num==1):
             print(num,"is not a prime number")
         elif(num>1):
             for i in range(2,num):
                 if(num%i==0):
                     flag=True
                     break
             if(flag==False):
                 print(num,"is not a prime number")
             else:
                 print(num,"is a prime number")
```

```
enter the number:12
12 is a prime number
```