Assignment 1

(1) python program to add two numbers.

```
In [2]: a = int(input("you have enter first number :"))
        b = int(input("you have enter second number :"))
        c = a+b
        print("the addition of two number is :",c)
```

```
you have enter first number :5
you have enter second number :3
the addition of two number is : 8
```

(2) python program to subtract two numbers.

```
In [3]: a = int(input("you have enter first number :"))
        b = int(input("you have enter second number :"))
        c = a-b
        print("the subtraction of two number is :",c)
```

```
you have enter first number :5
you have enter second number :3
the subtraction of two number is : 2
```

(3) python program to multiply two numbers.

```
In [4]: a = int(input("you have enter first number :"))
        b = int(input("you have enter second number :"))
        c = a*b
        print("the addition of two number is :",c)
```

```
you have enter first number :7
you have enter second number :4
the addition of two number is : 28
```

(4) python program for arithmetic operator.

```
In [7]: a = int(input("you have enter first number :"))
        b = int(input("you have enter second number :"))
        addition = a+b
        subtraction = a-b
        multiplication = a*b
        divison = a/b
        power = a**b
        modulus = a%b
        print("addition of",a,"and",b,"is :",addition)
        print("Substraction of",a,"and",b,"is :",subtraction)
        print("multiplication of",a,"and",b,"is :",multiplication)
        print("division of",a,"and",b,"is :",divison)
        print("power of",a,"and",b,"is :",power)
        print("modulus of",a,"and",b,"is :",modulus)
```

```
you have enter first number :10
you have enter second number :6
addition of 10 and 6 is : 16
Substraction of 10 and 6 is : 4
multiplication of 10 and 6 is : 60
division of 10 and 6 is : 1.6666666666666667
power of 10 and 6 is : 1000000
modulus of 10 and 6 is : 4
```

(5) Python program to print Calendar.

```
In [ ]:
```

(6) Python program to find Cube of a Number.

```
In [10]: a = int(input("you have enter first number :"))
         cube = a**3
         print("cube of",a,"is :",cube)
```

```
you have enter first number :2
cube of 2 is : 8
```

(7) Python program to find Largest of 2 Numbers.

```
In [11]: a = int(input("you have enter first number :"))
         b = int(input("you have enter second number :"))
         if a>b:
             print(a,"is large.")
         else:
             print(b,"is large.")
```

```
you have enter first number :5
you have enter second number :6
6 is large.
```

(8) Python program to find Largest of 3 Numbers.

In [13]:
```python
a = int(input("you have enter first number :"))
b = int(input("you have enter second number :"))
c = int(input("you have enter third number :"))
if a>b and a>c:
    print(a,"is large.")
elif b>a and b>c:
    print(b,"is large.")
else:
    print(c,"is large.")
```

```
you have enter first number :10
you have enter second number :15
you have enter third number :8
15 is large.
```

(9) Python program to Print Natural number 1 to N.

In [14]:
```python
a = int(input("you have enter number :"))
for i in range(1,a+1):
    print(i)
```

```
you have enter number :6
1
2
3
4
5
6
```

(10) Python program for Leap Year.

In [16]:
```python
a = int(input("Enter year : "))
if a % 4 == 0 or a % 100 == 0 or a % 400 == 0:
    print(a,"is a leap year.")
else:
    print(a,"is not a leap year.")
```

```
Enter year : 2002
2002 is not a leap year.
```

(11) python program to find Odd or Even.

In [18]:
```python
a = int(input("Enter number : "))
if a % 2 == 0:
    print(a,"is even.")
else:
    print(a,"is odd.")
```

```
Enter number : 7
7 is odd.
```

(12) Python program to print Even Numbers from 1 to 100.

In [28]:
```python
list1 = []
for i in range(1,101):
    if i % 2 == 0:
        list1.append(i)
print(list1)
```

```
[2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 4
2, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80,
82, 84, 86, 88, 90, 92, 94, 96, 98, 100]
```

(13) Python program to print Odd Numbers from 1 to 100.

In [26]:
```python
list1 = []
for i in range(1,101):
    if i % 2 != 0:
        list1.append(i)
print(list1)
```

```
[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41,
43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81,
83, 85, 87, 89, 91, 93, 95, 97, 99]
```

(14) Python Program to Print Negative Numbers in a Range.

In [30]:
```python
list1 = []
for i in range(-6,3):
    if i < 0:
        list1.append(i)
print(list1)
```

```
[-6, -5, -4, -3, -2, -1]
```

(15) Python Program to Print Positive Numbers in a Range.

In [31]:
```python
list1 = []
for i in range(-6,3):
    if i > 0:
        list1.append(i)
print(list1)
```

```
[1, 2]
```

(16) Python program to find Positive or Negative.

In [32]:
```python
a = int(input("Enter number :"))
if a >= 0:
    print(a,"is positive.")
else:
    print(a,"is negative.")
```

```
Enter number :47
47 is positive.
```

(17) Python program to find Profit Or Loss.

In [36]:
```python
original_price = int(input("Enter original price :"))
selling_price = int(input("Enter selling price :"))
profit = original_price - selling_price
loss = selling_price - original_price
if original_price > selling_price:
    print("profit is :",profit)
else:
    print("loss is :",loss)
```

```
Enter original price :1500
Enter selling price :1200
profit is : 300
```

(18) Python program to find Square of a Number.

In [35]:
```python
a = int(input("Enter number :"))
square = a ** 2
print("square of",a,"is :",square)
```

```
Enter number :5
square of 5 is : 25
```