```
1. Write a program to print the sum of two number without using + operator. other operators can be used.
```

2. Write a program to print the result of the following expression provided the interger variable a is 20 and b is 10. int b = a----a; int c = a---;

```
int d = a>>2;
int e = a&b;
```

Solution

```
import java.util.Scanner; ;// it will call the scanner class in util package

class Add// class name

{
    public static void main(String[] args)
    {
        int a, b, sum;//initializing variables
        System.out.println("Enter two number:");
        Scanner add= new Scanner(System.in); //input from user
        a= add.nextInt();//1st number from keyboard
        b= add.nextInt();//2nd number from keyboard
        sum= a-~b-1; // complement operator used for sum without using plus operator
        System.out.println("Addition of "+a+" and "+b+" is:"+sum);
}
```

ScreenShot of Result

```
C:\sweety_backup\Training\Assignment1> javac Add.java
C:\sweety_backup\Training\Assignment1>java Add
Enter two number:
12 14
Addition of 12 and 14 is:26
2: Solution
class Operator
public static void main(String[] args)
{
int a, b, c,d,e;
a=20;
b=10;
b= a-- - --a;
System.out.println(b);
c= a--;
System.out.println(c);
d = a >> 2;
System.out.println(d);
b= a-- - --a;
System.out.println(b);
}
}
Screen Shot of Result
C:\sweety_backup\Training\Assignment1\Java filr> javac Operator.java
C:\sweety_backup\Training\Assignment1\Java filr>java Operator
2
18
4
2
```

```
<u>a) int b= a-- - --a;</u>
```

```
class Operator1
{
  public static void main(String[] args)
{
  int a, b;
  a=20;
  b= a-- ---a; // a—is post decresment and —a is pre decresment operator
  System.out.println(b);
}
}
```

```
C:\sweety_backup\Training\Assignment1> javac Operator1.java
C:\sweety_backup\Training\Assignment1>java Operator1
2
```

b) int c = a--;

ScreenShot of Result

```
Class operator1
{
  public static void main(string[] args)
{
  int a,c;
  a=20;
  c= a--;// post decreament operator
System.out.println(c);
```

```
}
}
Screen Shot of Result
 C:\sweety_backup\Training\Assignment1> javac Operator2.java
 C:\sweety_backup\Training\Assignment1>java Operator2
20
<u>c) int d = a >> 2;</u>
class Operator3
public static void main(String[] args)
{
int a,d;
a=20;
d= a>>2 ;// Bitwise right shift with sign extension
System.out.println(d);
Screen Shot of Result
 C:\sweety_backup\Training\Assignment1> javac Operator3.java
 C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
C:\sweety_backup\Training\Assignment1>
```

d)int e = a&b;

```
class Operator4
{
  public static void main(String[] args)
{
  int a,b,e;
  a=20;
  b=10;

e = a&b; // bitwise & operator is used
  System.out.println(e);
}
}
```

Result Screenshot

```
C:\sweety_backup\Training\Assignment1> javac Operator4.java
C:\sweety_backup\Training\Assignment1>java Operator4
B
C:\sweety_backup\Training\Assignment1>
```