

# Lab2 Solutions

Problem1:

```
class Truthtable
{
    public static void main(String args[])
    {
        System.out.println("-----");
        System.out.println("A   B   A AND B A OR B");
        System.out.println("-----");
        System.out.println("true true  true  true");
        System.out.println("true false false true");
        System.out.println("false true  false true");
        System.out.println("false false false false");
        System.out.println("-----");
    }
}
```

Problem 2:

```
class Summation
{
    public static void main(String args[])
    {
        int i = 20 ,j = 100,result;
        /*Summation of integers between 20 to 100 equals summation from 1 to 100 - summation
        from 1 to 20*/
        result = 100*101/2 - 20*21/2;
        System.out.println("The summation of integers between " + i + " and " + j+ " is " +
            result );
    }
}
```

### Problem3:

/\* In the program we extract each digit by finding the remainder, and form the reverse number in reversenum\*/

```
class Reversenum
{
    public static void main(String args[])
    {
        int digit1,digit2,digit3,digit4,digit5,digit6;
        int num = 456325, reversenum=0;
        digit1 = num %10;
        reversenum = reversenum * 10 + digit1;
        num = num/10;
        digit2 = num % 10;
        reversenum = reversenum * 10 + digit2;
        num = num/10;
        digit3 = num % 10;
        reversenum = reversenum * 10 + digit3;
        num = num/10;
        digit4 = num % 10;
        reversenum = reversenum * 10 + digit4;
        num = num/10;
        digit5 = num % 10;
        reversenum = reversenum * 10 + digit5;
        digit6 = num/10;
        reversenum = reversenum * 10 + digit6;
        System.out.println("the reverse of number is " + reversenum);
    }
}
```