

1.Enter a Roman Number as input and convert it to an integer.(Example: IX = 9)(Using Java)

PROGRAM

```
import java.util.*;
import java.io.*;
import java.lang.Math;
public class Main {
    public static void main(String args[]) {
        Main obj = new Main();
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a Roman Number in capital letters: ");
        String inputRoman= sc.nextLine();
        System.out.println("The Integer value of given Roman number is:"+obj.romanToInt(inputRoman));
    }
    int NumValue(char rom){
        if (rom == 'I')
            return 1;
        if (rom == 'V')
            return 5;
        if (rom == 'X')
            return 10;
        if (rom == 'L')
            return 50;
        if (rom == 'C')
            return 100;
        if (rom == 'D')
            return 500;
        if (rom == 'M')
            return 1000;
        return -1;
    }
}
```

```
}  
  
int romanToInt(String str) {  
    int sum = 0;  
    for (int i=0; i<str.length(); i++) {  
        int s1 = NumValue(str.charAt(i));  
        if (i+1 < str.length()) {  
            int s2 = NumValue(str.charAt(i+1));  
            if (s1 >= s2) {  
                sum = sum + s1;  
            }  
            else {  
                sum = sum - s1;  
            }  
        }  
        else {  
            sum = sum + s1;  
        }  
    }  
    return sum;  
}  
}
```

