

Assignment - 1

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Course
Code : CSA 0999

course Programming in Java
Name: for Swings

1) Write a Java code for sum of even numbers in natural numbers.

Source code:

```
import java.io.*;
import java.util.*;

class sum {
    public static void main (String args[]) {
        int sum=0, i = 1;
        Scanner s = new Scanner (System.in);
        System.out.print ("Enter the no : ");
        int n = s.nextInt ();
        while (i<=n) {
            if (i%2==0) {
                sum = sum+i;
            }
            i++;
        }
        System.out.println ("Sum of even no from 1 to " + n + " is : "
                           + sum);
    }
}
```

O/P:

Enter the no: 10

Sum of even no from 1 to 10 is 30.

3) Write a java code for sum of digits in given number

Source codes

```
import java.io.*;
import java.util.*;

class Sum {
    public static void main (String args[]) {
        int sum = 0, num;
        System.out.print ("Enter num:");
        Scanner S = new Scanner (System.in);
        num = S.nextInt ();
        while (num != 0) {
            int digit = num % 10;
            sum = sum + digit;
            num = num / 10;
        }
        System.out.println ("Sum of digits " + num + " is: "
                           + sum);
    }
}
```

Output:

Enter num: 1 2 3 4 5

Sum of digits in 12345 is 15

3) Write a java code to reverse a numbers.

Source code:

```
import java.io.*;
import java.util.*;
class Reverse {
    public static void main (String args[]) {
        int num, reversedNum = 0, digit;
        Scanner Scan = new Scanner (System.in);
        System.out.print ("Enter a num to reverse: ");
        num = Scan.nextInt();
        while (num != 0) {
            int digit = num % 10;
            reversedNum = reversedNum * 10 + digit;
            num /= 10;
        }
        System.out.println ("Reversed num : " + reversedNum);
    }
}
```

Output:

Enter a num to reverse: 321

Reversed num: 123

4) Write a java code to find given input is palindrome or not

Source code:

```
import java.io.*;
class palindrome {
    public static void main (String args[]) {
        String rev = "" ; o ;
        Scanner s = new Scanner (System.in);
        System.out.print ("Enter a string / num : ");
        o = Scan.nextLine ();
        int length = o.length ();
        for (int i = length - 1 ; i >= 0 ; i--) {
            rev = rev + o.charAt(i); }
        if (o.equals (rev)) {
            System.out.println ("O + " is palindrome");
            }
        else {
            System.out.println ("O + " is not a palindrome");
            }
        }
    }
```

Output:

Enter a string / num : Rama

Rama is a palindrome.

Enter a string / num : 20

is not a
palindrome