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COURSE : PROGRAMMING IN JAVA
NAME
FOR SWINGS

ASSIGNMENT I

1. write a java code for sum of even number 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 Last natural number: ");
        int n = s.nextInt();
        while (i <= n) {
            if (i % 2 == 0) {
                sum = sum + i;
            }
            i++;
        }
        System.out.println("Sum of even numbers from 1 to " + n + " is: " + sum);
    }
}
```

Output:-

Enter Last natural number : 10

Sum of even numbers from 1 to 10 is 30.

2) write a java code for sum of digits in given number.

Source Code:-

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

class SumDigits {

    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 /= 10;
        }
        System.out.println("Sum of digits in " + num + " is: " + sum);
    }
}
```

Output:-

Enter num : 12345

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

Output:-

Enter a number to reverse : 987654

Reversed num : 456789

4. Write a java code to find given input is a pallindrome (or) not.

Source Code:-

```
import java.util.*;

class Palindrome {

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

Output:-

Enter a string/num: mam

mam is a palindrome.

Enter a string/num: 100

100 is not a palindrome.