Assignment :- 5

Date
Page No

1. write a program that accepts three strings as (command) line arguments and generate the output in the required format.

Input :- 1. Ram
2. Kumar
3. Singh

output :- R.K. Singh.

2. write a Java Program to find if the given number is Prime or not. (Scanner)

3. write a Program to print the sum of all the digits at the even positions of a 7 digit number (Scanner)

4. write a Java Program to find if the given number is palindrome or not. (buffer)

5. write a Java program to find if the given number is armstrong or not. (buffer)

Answer.

```
1 import java.lang.*;
  Public class Name {
      public static void main (String args[]) {
          String a = args[0];
          String b = args[1];
          String c = args[2];
          System.out.println(a.charAt(0)+". " +
                                  b.charAt(0)+". " + c);
      }
  }
```

Date
Page No.

output:-

javac Name.java

java Name Ram Kumar Singh

R.K. Singh

2

```
import java.lang.*;
import java.util.*;
public class Prime {
    public static void main (String args[]) {
        Scanner sc = new Scanner (System.in);
        int val = sc.nextInt();
        int check = 1;
        for (int i = 2; i <= (val/2); i++) {
            if (val % i == 0) {
                check = 0;
                break;
            }
        }
        if (check == 1) {
            System.out.println (val + " is a Prime
                                    number.");
        } else {
            System.out.println (val + " is not a
                                    Prime number.");
        }
        sc.close();
    }
}
```

output:-

Enter a number:-

127

127 is a Prime number.

Date
Page No.

(3)
```
import java.lang.*;
import java.util.*;
public class EvenDigitSum {
    public static void main (String args[]){
        Scanner sc = new Scanner (System.in);
        System.out.Print ("Enter a 7 digit number :- ");
        int val = sc.nextInt();
        System.out.Print ("The sum of "+val+" is:- ");
        int sum =0;
        val = val /10;
        sum += val %10;
        val = val /100;
        sum += val %10;
        val = val /100;
        sum += val %10;
        System.out.Print (sum);
        sc.close();
    }
}
```

output :-
Enter a 7 digit number :- 1234567
The sum of 1234567 is : 12

Date
Page No.

4
```
import java.lang.*;
import java.io.*;
public class Palindrome{
    public static void main(String args[]) throws
                                        IOException{
        BufferedReader br = new BufferedReader
            (new InputStreamReader(System.in));
        System.out.println("Enter a number :-");
        int val = Integer.parseInt(br.readLine());
        int temp = val;
        int rev = 0;
        while(temp != 0){
            rev = (rev * 10) + (temp % 10);
            temp = temp / 10;
        }
        if(val == rev){
            System.out.println(val + " is Palindrome.");
        }else{
            System.out.println(val + " is not
                                Palindrome.");
        }
    }
}
```

output :-

Enter a number :-

1331

1331 is Palindrome.

Date
Page No.

5. 
```
import java.lang.*;
import java.io.*;
public class Armstrong {
    public static void main(String args[])throws IOException{
        BufferedReader br = new BufferedReader
            (new InputStreamReader (System.in));
        System.out.println ("Enter a number :- ");
        int val = Integer.parseInt (br.readLine());
        int temp = val;
        int count = 0;
        while (temp != 0) {
            count ++;
            temp = temp/10;
        }
        temp = val;
        int sum = 0;
        while (temp != 0) {
            sum += Math.pow((temp%10), count);
            temp = temp/10;
        }
        if (val == sum) {
            System.out.println(val+ "is an armstrong
                                    number.");
        }else {
            System.out.println(val+ "is not an armstrong
                                    number.");
        }
    }
}
```

output :-

Enter a number :-

153

153 is an armstrong number.