โปรแกรมที่ 1

```java
class x
{
    public static void main(String arge[])
    {
        for(int i=1;i>=5;i++)
        {
            for(int j=i;j<5;j++)
            {
                System.out.print(" ");
            }
            for(int j=1;j<=i;j++)
            {
                System.out.print(j);
            }
            System.out.print(5-i+1);
            for(int j=i;j>=1;j--)
            {
                System.out.print(j);
            }
            System.out.println();
        }
    }
}
```

โปรแกรมที่ 2

```java
class x {

    public static void main(String args[]){
      int array[] = new int[]{1, 2, 3, 4, 5, 10};

      int max = Max(array);
      System.out.println("Maximum Value is: "+max);

      int min = Min(array);
      System.out.println("Minimum Value is: "+min);
    }

    public static int Max(int[] inputArray){
      int maxValue = inputArray[0];
      for(int i=1;i < inputArray.length;i++){
```

```java
            if(inputArray[i] > maxValue){
                maxValue = inputArray[i];
            }
        }
        return maxValue;
    }

    public static int Min(int[] inputArray){
        int minValue = inputArray[0];
        for(int i=1;i<inputArray.length;i++){
            if(inputArray[i] < minValue){
                minValue = inputArray[i];
            }
        }
        return minValue;
    }
}
```

โปรแกรมที่ 3

```java
import java.util.*;

class x {

    public static void main(String []args) {

     ArrayList<Integer> IntegerArrLst = new ArrayList<Integer>();

        IntegerArrLst.add(1);
        IntegerArrLst.add(2);
        IntegerArrLst.add(3);
        IntegerArrLst.add(4);
        IntegerArrLst.add(5);

        for (int IntgerArrItem : IntegerArrLst) {

                System.out.println("The Integer item in ArrayList: " + IntgerArr
Item);
            }
    }
}
```

โปรแกรมที่ 4

```java
import java.util.Scanner;

class x {
    public static void main(String[] args) {

        Double number, sum = 0.0;

        Scanner input = new Scanner(System.in);

        do {


            System.out.print("Enter a number: ");
            number = input.nextDouble();
            sum += number;
        } while (number != 0.0);

        System.out.println("Sum = " + sum);
    }
}
```

โปรแกรมที่ 5

```java
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

class x {

    public static void main(String[] args) {
        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        System.out.print("Input your name:");
        StringBuffer sb = new StringBuffer("Welcome ");

        try {
            sb.append(br.readLine());
            br.close();
            System.out.println(sb);

        } catch (IOException e) {
```

```java
            System.out.println("Error Encountered getting user input:"
                    + e.getMessage());
            e.printStackTrace();
        }
    }
}
```

โปรแกรมที่ 6

```java
import java.util.Scanner;
class x {
    public static void main(String[] args) {

    Scanner keyboard = new Scanner(System.in);
    System.out.print("enter an month : ");
    int month = keyboard.nextInt();
    String monthString;

        switch (month) {
            case 1:  monthString = "January";
                    break;
            case 2:  monthString = "February";
                    break;
            case 3:  monthString = "March";
                    break;
            case 4:  monthString = "April";
                    break;
            case 5:  monthString = "May";
                    break;
            case 6:  monthString = "June";
                    break;
            case 7:  monthString = "July";
                    break;
            case 8:  monthString = "August";
                    break;
            case 9:  monthString = "September";
                    break;
            case 10: monthString = "October";
                    break;
            case 11: monthString = "November";
                    break;
            case 12: monthString = "December";
                    break;
```

```
                default: monthString = "Invalid month";
                        break;
        }
        System.out.println(monthString);
    }
}
```

โปรแกรมที่ 7

```java
import java.util.Scanner;

class x {
    public static void main(String[] args) {
        Scanner keyboard = new Scanner(System.in);
        System.out.print("enter an score : ");

        int score = keyboard.nextInt();
        char grade;

        if (score >= 90) {
            grade = 'A';
        } else if (score >= 80) {
            grade = 'B';
        } else if (score >= 70) {
            grade = 'C';
        } else if (score >= 60) {
            grade = 'D';
        } else {
            grade = 'F';
        }
        System.out.println("Grade = " + grade);
    }
}
```

โปรแกรมที่ 8

```java
class x {
    public static void main(String[] args){

        int arr[][] = new int[3][];
        arr[0] = new int[3];
```

```
        arr[1] = new int[4];
        arr[2] = new int[2];

        int count = 0;
        for (int i=0; i<arr.length; i++)
            for(int j=0; j<arr[i].length; j++)
                arr[i][j] = count++;


        for (int i=0; i<arr.length; i++){
            for (int j=0; j<arr[i].length; j++){
                System.out.print(arr[i][j]+" ");
            }
            System.out.println();
        }
    }
}
```

โปรแกรมที่ 9

```
class x {
    public static void main(String[] args) {
        byte b =100;
        short s =123;
        int v = 123543;
        int calc = -9876345;
        long amountVal = 1234567891;
        float intrestRate = 12.25f;
        double sineVal = 12345.234d;
        boolean flag = true;
        boolean val = false;
        char ch1 = 88;
        char ch2 = 'N';
        System.out.println("byte Value = "+ b);
        System.out.println("short Value = "+ s);
        System.out.println("int Value = "+ v);
        System.out.println("int second Value = "+ calc);
        System.out.println("long Value = "+ amountVal);
        System.out.println("float Value = "+ intrestRate);
        System.out.println("double Value = "+ sineVal);
        System.out.println("boolean Value = "+ flag);
        System.out.println("boolean Value = "+ val);
        System.out.println("char Value = "+ ch1);
```

```
        System.out.println("char Value = "+ ch2);
    }
}
```

โปรแกรมที่ 10

```java
class x {
    public static void main(String[] args) {
        String name = "aknahK tuyaraW";
        int len = name.length();
        char[] tempCharArray = new char[len];
        char[] charArray = new char[len];


        for (int i = 0; i < len; i++) {
            tempCharArray[i] =
                name.charAt(i);
        }

        for (int j = 0; j < len; j++) {
            charArray[j] =
                tempCharArray[len - 1 - j];
        }

        String reversename =
            new String(charArray);
        System.out.println(reversename);
    }
}
```