

โปรแกรมที่ 1 Switch

```
import java.util.Scanner;

public class Switch {

    public static void main(String[] args) {

        Scanner reader = new Scanner(System.in);

        System.out.print("What\'s floor do you want to go: ");

        char floor = reader.next().charAt(0);

        switch (floor) {

            case 'G' :

                System.out.println("Elevator is going to ground floor.");

                break;

            case '1' :

                System.out.println("Elevator is going to first floor.");

                break;

            case '2' :

                System.out.println("Elevator is going to second floor.");

                break;

            case '3' :

                System.out.println("Elevator is going to third floor.");

                break;

            default:

                System.out.println("Elevator don't know where to go.");

        }

    }

}
```

โปรแกรมที่ 2 String

```
import java.util.Scanner;

public class Constant {

    public static void main(String[] args)

    {

        String name;

        int age;

        String sport;

        Scanner reader = new Scanner(System.in);

        Scanner reader2 = new Scanner(System.in);

        System.out.print("What's your name?: ");

        name = reader.nextLine();

        System.out.print("How old are you?: ");

        age = reader2.nextInt();

        System.out.print("What's your favorite sport?: ");

        sport = reader.nextLine();

        System.out.println("Hello " + name);

        System.out.print("You was born in " + (2017 - age));

        System.out.println(" and loves to play " + sport);

    }

}
```

โปรแกรมที่ 3 try catch

```
import java.util.InputMismatchException;
import java.util.Scanner;
public class TestException1 {
    public static void main (String[] args) {
        Scanner reader = new Scanner(System.in);
        int index;
        int[] array = { 10, 20, 30, 40, 50 };
        try {
            System.out.print("Enter index: ");
            index = reader.nextInt();
            try {
                System.out.println("array[" + index + "] = " + array[index]);
            }
            catch (IndexOutOfBoundsException ex) {
                System.out.println("Exception occurred: " + ex);
                System.out.println("You entered number exceeds the array size");
            }
        }
        catch (InputMismatchException ex) {
            System.out.println("Exception occurred: " + ex);
            System.out.println("You must specify an index in integer");
        }
    }
}
```

โปรแกรมที่ 4 Do-While

```
import java.util.Scanner;

public class DoWhileLoop {

    public static void main(String[] args) {

        Scanner reader = new Scanner(System.in);

        int number;

        System.out.println("\tDetermine odd/even program");

        do {

            System.out.print("Enter odd number to exit loop: ");

            number = reader.nextInt();

            if (number % 2 == 0) {

                System.out.println("You entered " + number + ", it's even.");

            }

            else {

                System.out.println("You entered " + number + ", it's odd.");

            }

        }

        while (number % 2 == 0);

        System.out.println("Exited loop.");

    }

}
```

โปรแกรมที่ 5 method

```
import java.util.Scanner;

public class MethodParameters {
    public static void main(String[] args) {
        Scanner reader = new Scanner(System.in);

        // call method
        open ();

        System.out.print("Enter music name to play: ");
        play(reader.nextLine()); // call method with 1 argument

        System.out.println("Where do you want to seek music to?");
        int min, sec;
        System.out.print("Enter minute: ");
        min = reader.nextInt();
        System.out.print("Enter second: ");
        sec = reader.nextInt();

        seekTo(sec, min); // call method with 2 arguments
    }
    // no parameter method
    public static void open () {
        System.out.println("Music player started.");
    }
    // method with one parameter
    public static void play (String name) {
        System.out.println("Playing your music \" " + name + "\"");
    }
    // method with two parameters
    public static void seekTo (int sec, int min) {
        System.out.println("Seek music to " + min + ":" + sec);
    }
}
```

โปรแกรมที่ 6 array

```
public class TwoDimensionArray {
    public static void main(String[] args) {
        final int ROW = 3, COLUMN = 4;
        int score[][] = new int[ROW][COLUMN];
        int data = 5;
        // Assigning values
        for (int i = 0; i < ROW; i++) {
            for (int j = 0; j < COLUMN; j++) {
                score[i][j] = data;
                data += 5;
            }
        }
        // Printing array
        System.out.println("Array");
        for (int i = 0; i < ROW; i++) {
            for (int j = 0; j < COLUMN; j++) {
                System.out.print("\t" + score[i][j]);
            }
            System.out.println();
        }

        // Printing array's transpose
        System.out.println("Transpose array");
        for (int i = 0; i < COLUMN; i++) {
            for (int j = 0; j < ROW; j++) {
                System.out.print("\t" + score[j][i]);
            }
            System.out.println();
        }

        // Find a summation and an average
        int sum = 0;
        for (int i = 0; i < COLUMN; i++) {
            for (int j = 0; j < ROW; j++) {
                sum += score[j][i];
            }
        }
        System.out.println("Array's sum = " + sum);
        System.out.println("Array's avg = " + (float)(sum) / (ROW * COLUMN));
    }
}
```

โปรแกรมที่ 7 static

```
public class ObjectExample {
    public static void main(String[] args) {
        Person p1 = new Person();
        Person p2 = new Person();

        p1.name = "Mateo";
        p1.age = 20;

        p2.name = "Danny";
        p2.age = 25;

        System.out.println("Name: " + p1.name);
        System.out.println("Age: " + p1.age);
        System.out.println(StaticMember.NAME_PREFIX + " " + p1.name);

        System.out.println("\nName: " + p2.name);
        System.out.println("Age: " + p2.age);
        StaticMember.displayName(p2.name);
    }
}

class Person {
    public String name;
    public static int age;
}

class StaticMember {
    public static String NAME_PREFIX = "Mr.";

    public static void displayName (String name) {
        System.out.println(NAME_PREFIX + " " + name);
    }
}
```

โปรแกรมที่ 8 Else-If

```
import java.util.Scanner;

public class Elself {

    public static void main(String[] args) {

        Scanner sn = new Scanner(System.in);

        System.out.println("\tScore Evaluation Program");

        System.out.print("Enter your score between 0 - 100: ");

        int score = sn.nextInt();

        if (score < 0 || score > 100) {

            System.out.println("You must enter a correct score, try again later.");

        } else {

            if (score >= 80) {

                System.out.println("Your score is excellent.");

                System.out.println("You grant grade S.");

            } else if (score >= 60) {

                System.out.println("Your score is good.");

                System.out.println("You grant grade A.");

            } else if (score >= 40) {

                System.out.println("Your score is fair.");

                System.out.println("You grant grade B.");

            } else {

                System.out.println("Your score is poor.");

                System.out.println("You grant grade C.");

            }

        }

    }

}
```


โปรแกรมที่ 9 while loop

```
import java.util.Scanner;

public class ClassAverage {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.println("Welcome to the grade book for");
        System.out.println("Java Programming!");

        int total;
        int gradeCounter;
        int grade;
        int average;

        total = 0;
        gradeCounter = 1;

        while (gradeCounter <= 10) {
            System.out.print("Enter grade: ");
            grade = input.nextInt();
            total = total + grade;
            gradeCounter = gradeCounter + 1;
        }

        average = total / 10;

        System.out.printf("\nTotal of all 10 grades is %d\n", total);
        System.out.printf("Class average is %d\n", average);
    }
}
```

โปรแกรมที่ 10 pyramid

```
public class mim33 {
    public static void main(String[] args) {
        int mim,m;
        for (mim=1; mim <= 3; mim++) {
            for (m=3; m >= mim; m--)
            {
                System.out.print(" ");
            }
            for (m=1; m <= mim; m++)
            {
                System.out.print("*");
            }
            for (m=2; m <= mim; m++)
            {
                System.out.print("*");
            }
            System.out.println();
        }
        for (mim=1; mim <= 2; mim++) {
            for (m=1; m <= mim+1; m++)
            {
                System.out.print(" ");
            }
            for (m=mim; m <= 2; m++)
            {
                System.out.print("*");
            }
            for (m=mim; m <= 1; m++)
            {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```