

Assignment - 1

Conditional Statements

(If, If- Else, If-Else If Ladder, Switch case)

No. 1

Write a java program to get a number from the user and print whether it is positive or negative.

```
/*Java program to get a number from user check if the number is positive or negative. */

//Importing packages
import java.util.*;

//Implementing main class
public class _1_PositiveNegative {

    //Implementing main method
    public static void main(String[] x) {

        //Variable & Object Declaration
        Scanner scan = new Scanner(System.in);
        int n1;

        //Getting values
        System.out.print("\nEnter a number:\t");
        n1 = scan.nextInt();

        //Logic Block
        if(n1 >= 0)
```

```

        System.out.println("\n" + n1 + " is a positive number.");
    else
        System.out.println("\n" + n1 + " is a negative number.");
    }
}

```

No. 2

Write a program to find maximum number from given 3 numbers.

```

/*Java program to check the maximum number out of three given numbers. */

//Importing packages.
import java.util.*;

//Implementing main class.
public class _2_MaxOutOf3 {

    //Implementing the main method.
    public static void main(String[] x) {
        //Declaring variables and objects.
        Scanner scan = new Scanner(System.in);
        int n1, n2, n3, M;

        //Getting values from user.
        System.out.println("\nEnter any three numbers:");
        n1 = scan.nextInt();
        n2 = scan.nextInt();
        n3 = scan.nextInt();

        //Logic implementation.
    }
}

```

```

        System.out.println("\n");
        if (n1 > n2) {
            if(n1 > n3)
                System.out.println(n1 + " is the biggest number.");
            else
                System.out.println(n3 + " is the biggest number.");
        }
        else {
            if(n2 > n3)
                System.out.println(n2 + " is the biggest number.");
            else
                System.out.println(n3 + " is the biggest number.");
        }
    }
}

```

No. 3

The marks obtained by a student in 5 different subjects are input through the keyboard.

✚ The Students gets a division as per the following rules:

- Percentage above or equal to 60-first division
- Percentage between 50 to 59-second division
- Percentage between 40 to 49-third division
- Percentage less than 40-fail

Write a program to calculate the division obtained by the student.

```

/*Java program to get marks of 5 subjects and show the results and grade.*/

//Importing required packages
import java.util.*;

```

```
//Implementing main class
public class _3_Marksheet {

    //Implementing the main method
    public static void main(String[] x) {

        //Variable and objects declaration
        Scanner scan = new Scanner(System.in);

        int s1, s2, s3, s4, s5;

        float p;

        boolean check = false;

        //Getting inputs from user
        System.out.println("\nEnter marks within 100 for 5 subjects:");

        s1 = scan.nextInt();
        s2 = scan.nextInt();
        s3 = scan.nextInt();
        s4 = scan.nextInt();
        s5 = scan.nextInt();

        //Check for invalid input
        if((s1 > 100 || s1 < 0) || (s2 > 100 || s2 < 0) || (s3 > 100 || s3 < 0) || (s4 >
100 || s4 < 0) || (s5 > 100 || s5 < 0)) {

            System.out.println("\nOne or more inputs were invalid.\n\nPlease
retry.\n");

            check = true;

        }

        //Logic implementation
        if(check == false) {

            p = (s1 + s2 + s3 + s4 + s5) / (float)(5);

            System.out.println();
        }
    }
}
```

```

        if(p >= 60)
            System.out.println("You scored in First Division with " + p +
"%.");
        else if(p >= 50 && p <= 59)
            System.out.println("You scored in Second Division with " + p +
"%.");
        else if(p >= 40 && p <= 49)
            System.out.println("You scored in Third Division with " + p +
"%.");
        else
            System.out.println("You failed with only " + p + "% score.");
    }
}
}

```

No. 4

Write a java program that takes a number from the user and displays a name of the weekday accordingly (For example if user enter 1 program should return Monday).

```

/*Java program to display the a day respective to the input number. */

//Importing required packages
import java.util.*;

//Implementing main class
public class _4_Day {

    //Implementing the main method
    public static void main(String[] x) {

```

```
//Declaring required variables and objects

Scanner scan = new Scanner(System.in);

int check;

//Getting input from user

System.out.println("\nEnter any number from 1 to 7:");

check = scan.nextInt();

//Logic Implementation

System.out.println();

switch(check) {

    case 1:

        System.out.println("Monday");

        break;

    case 2:

        System.out.println("Tuesday");

        break;

    case 3:

        System.out.println("Wednesday");

        break;

    case 4:

        System.out.println("Thursday");

        break;

    case 5:

        System.out.println("Friday");

        break;

    case 6:

        System.out.println("Saturday");

        break;

    case 7:

        System.out.println("Sunday");
```

```
        break;
    default:
        System.out.println("Invalid input.\n");
    }
}
```