PDGMS Malshani   28614

Practical 01

1.
```java
public class practical01 {
    public static void main(String[] args)
    {
        System.out.println("Hello World");
    }
}
```

2.
```java
public class practical02
{
    public static void main(String[] args)
    {
        System.out.println("GMS Malshani");
        System.out.println("MIS");
    }
}
```

3.
```java
//for loop
public class practical03
{
    public static void main(String[] args)
    {
        for (int i = 0; i < 5; i++) {
            System.out.println("Executing Loop  " + i);
        }
    }
}
```

```java
// while loop
public class practical03
{
    public static void main(String[] args)
    {
        int x= 0;
        while (x < 5)
        {
            System.out.println("Executing Loop  " + x);
            x++;
        }
    }
}
```

4. //break
```java
public class practical04 {
    public static void main(String[] args) {
        int[] numbers = {10, 20, 30, 40, 50};
        for (int x : numbers) {
            if (x == 30) {
                break;
            }
            System.out.print(x + "\n");
        }
        System.out.print("I'm out of the Loop now");
    }
}
```

Result is:
10
20
I'm out of the loop

// continue
```java
public class practical04
{
    public static void main(String[] args)
    {
        int[] numbers = {10, 20, 30, 40, 50};
        for (int x : numbers) {
            if (x == 30) {
                continue;
            }
            System.out.print(x + "\n");
        }
        System.out.print("I'm out of the Loop now");
    }
}
```

Resul is:
10
20
40
50
I'm out of the Loop now

5.

```java
//with break
public class practical06
{
    public static void main(String[] args)
    {
        char grade = 'A';
        switch (grade) {
          case 'A':
            System.out.println("Excellent!");
            break;
          case 'D':
            System.out.println("You passed");
          case 'F':
            System.out.println("Better try again");
            break;
          default:
            System.out.println("Invalid grade");
        }
        System.out.println("Your grade is " + grade);
    }
}
```

Resul is:
Excellent!
Your grade is A

```java
//removing break
public class practical05
{
    public static void main(String[] args)
    {
        char grade = 'A';
        switch (grade) {
          case 'A':
            System.out.println("Excellent!");
          case 'D':
            System.out.println("You passed");
          case 'F':
            System.out.println("Better try again");
            break;
          default:
            System.out.println("Invalid grade");
        }
```

```
        System.out.println("Your grade is " + grade);
      }
    }
```

Result is:
Excellent!
You passed
Better try again
Your grade is A


```
//switch case
public class practical05
 {
   public static void main(String[] args)
   {
       char grade = 'A';

       if (grade == 'A') {
          System.out.println("Excellent!");
       } else if (grade == 'D') {
          System.out.println("You passed");
       } else if (grade == 'F') {
          System.out.println("Better try again");
       } else {
          System.out.println("Invalid grade");
       }

       System.out.println("Your grade is " + grade);
    }
 }
```

Result is:
Excellent!
Your grade is A

6. Errors
    • Main method has an incorrect signature. It should be "public void static main(String []
      args)
    • The names array contains a syntax error due to the incorrect double quotes. We should
      use regular double quotes ("James", "Larry", "Tom", "Lacy") instead of curly quotes
      ("James", "Larry", "Tom", "Lacy")

- The last System.out.print(",") statement in the first loop should not have a comma after the closing parenthesis.

```
//recorrection
public class practical06
{
    public static void main(String[] args)
 {
        int[] numbers = {10, 20, 30, 40, 50};
        for (int x : numbers) {
            System.out.print(x);
            System.out.print(",");
        }
        System.out.print("\n");
        String[] names = {"James", "Larry", "Tom", "Lacy"};
        for (String name : names) {
            System.out.print(name);
            System.out.print(",");
        }
    }
}
```

Output is:
10,20,30,40,50,
James,Larry,Tom,Lacy,