Practical 01 – OOP Using Java

1.

```java
package com.mycompany.hello;

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

2.

```java
package com.mycompany.namedegree;

import java.util.Scanner;

public class NameDegree
{
  public static void main(String[] args)
  {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter your name: ");
    String name = scanner.nextLine();
    System.out.print("Enter your degree program: ");
    String degreeProgram = scanner.nextLine();
    System.out.println(name);
    System.out.println(degreeProgram);
  }
```

}

3.

For Loop

```java
package com.mycompany.forloop;

public class ForLoop

{

    public static void main(String[] args)

  {

    for (int i = 0; i < 5; i++)

   {

    System.out.println("Executing Loop " + i);

   }

   }

}
```

While Loop

```java
package com.mycompany.whileloop;

public class WhileLoop

{

  public static void main(String[] args)

  {

    int i = 0;

    while (i < 5)

    {

       System.out.println("Executing Loop " + i);

       i++;
```

```
        }
    }
}
```

4.

<table>
<tr><td><u>Result 1:</u></td><td><u>Result 2:</u></td></tr>
<tr><td>10</td><td>10</td></tr>
<tr><td>20</td><td>20</td></tr>
<tr><td>I'm out of the Loop now</td><td>40</td></tr>
<tr><td></td><td>50</td></tr>
<tr><td></td><td>I'm out of the Loop now</td></tr>
</table>

5.

<u>Result 1:</u>

Excellent!

Your grade is A

<u>Result 2:</u>

Excellent!

You passed

Better try again

Your grade is A

<u>If-else Statement</u>

```java
public class Grade {
    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);
    }
}
```

6.

10, 20, 30, 40, 50,

James, Larry, Tom, Lacy