

Practical 01

1.

```
public class practical1 {  
    public static void main(String[] args) {  
        System.out.println("Hello World!");  
    }  
}
```

2.

```
public class practical1 {  
    public static void main(String[] args) {  
        System.out.println("Menaka");  
        System.out.println("Data Science");  
    }  
}
```

3.

For loop

```
public class practical1 {  
    public static void main(String[] args) {  
        for(int i=0;i<5;i++)  
            System.out.println("Executing Loop "+i);  
    }  
}
```

While loop

```
public class practical1 {
```

```

public static void main(String[] args) {
    int i=0;
    while (i<5){
        System.out.println("Executing Loop "+i);
        i++;
    }
}

```

4.i)

```

public class practical1 {
    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);
            System.out.print("\n");
        }
        System.out.print("I'm out of the Loop now");
    }
}

```

Output

10

20

I'm out of the Loop now

ii)

```
public class practical1 {  
    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);  
            System.out.print("\n");  
        }  
        System.out.print("I'm out of the Loop now");  
    }  
}
```

Output:

10

20

40

50

I'm out of the Loop now

5. i)

```
public class Grade {
```

```
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);  
}  
}
```

Output:

Excellent!

Your grade is A

ii)

```
public class Grade {  
    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);
}
}

```

Output

Excellent!

You passed

Better try again

Your grade is A

iii)

```

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.

Corrected code

```

class TestEnhanceForLoop {
    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:

10,20,30,40,50

James, Larry, Tom, Lacy