

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

```
2. import java.util.Scanner;  
  
public class DisplayInfo {  
    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();  
  
        // Display the name and degree program on separate lines  
        System.out.println(name);  
        System.out.println(degreeProgram);  
  
        scanner.close();  
    }  
}
```

### 3. For Loop

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

```
    }  
    }  
}
```

While loop.

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

4.

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

**Output,**

10

20

40

50

I'm out of the Loop now

5.

```
public class Grades{  
    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("fail");  
                break;  
            default:  
                System.out.println("Invalid grade");  
        }  
        System.out.println("Your grade is " + grade);  
    }  
}
```

### **Break (output)**

Excellent!

Your grade is A

### Switch case without break

```
public class Grades {  
    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("Fail");  
                break;  
            default:  
                System.out.println("Invalid grade");  
        }  
        System.out.println("Your grade is " + grade);  
    }  
}
```

### Output

Excellent!

You passed

Fail

Your grade is A

### If-else

```
public class Grades {
```

```

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("Fail");
    } else {
        System.out.println("Invalid grade");
    }
    System.out.println("Your grade is " + grade);
}
}

```

6.

```

public class TestEnhancedForLoop {
    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,