Practical 01 answers- Java Lab

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1)	```java public class HelloWorld { public static void main(String[] args) { System.out.println("Hello World"); } } ```
2)	```java public class NameAndDegree { public static void main(String[] args) { System.out.println("Your Name"); System.out.println("Your Degree Program"); } } ``` Save the above code in a file called "NameAndDegree.java". Then, open the command prompt (cmd), navigate to the directory where the file is saved, and execute the following commands: javac NameAndDegree.java java NameAndDegree
3)	**Using for loop-** ```java public class ForLoopExample { public static void main(String[] args) { for (int i = 0; i < 5; i++) { System.out.println("Executing Loop " + i); } } } ``` **Using while loop-** ```java public class WhileLoopExample { public static void main(String[] args) { int i = 0; while (i < 5) { System.out.println("Executing Loop " + i); i++; } } } ```
4)	**With break statement-** ```java public class BreakExample { public static void main(String[] args) { int[] numbers = {10, 20, 30, 40, 50}; for (int x : numbers) { if (x == 30) { break; ```

```
        }
        System.out.println(x);
      }
      System.out.println("I'm out of the Loop now");
    }
  }
}
```
Output-
10
20
Im out of the loop now

With continue statement-
```
public class ContinueExample {
  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

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Output-
Excellent!
Your grade is A
The output removing break command at line 6-
Excellent!
You passed
Better try again
Your grade is A
The same program using if else statements-
```
public class GradeExample {
  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') {
```
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	System.out.println("Better try again");
	            } else {
	              System.out.println("Invalid grade");
	            }
	            System.out.println("Your grade is " + grade);
	        }
	    }

6)	```java
	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.println();
	        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,