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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 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 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. //with break public
   class practical06

```java
{
    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


```java
//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.

```java
//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,