Practical 01

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Questions-

- 1. Write you first java programme to display "Hello World" on the screen.
- 2. Write a programme to display your name on the first line and to display your degree programme on the second line on the screen. Please use command line (cmd) to execute your code.
- 3. Write down a programme to get the following output using a for loop. Repeat the same example by using a while loop.

```
Executing Loop 0
Executing Loop 1
Executing Loop 2
Executing Loop 3
Executing Loop 4
```

4. Write a class and insert the following code block into the appropriate place. Execute the code and get the result.

```
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");
    "
```

Results:

Repeat the same code using "continue" instead of "break". Write down the output.

Results:

5. Write a class and insert the following code block into the appropriate place. Execute the code and get the result.

```
    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);
```

Results:

Repeat the same removing "break" command at line number 6. Write down the output.

Repeat the same scenario by using if-else-if statement instead of switch case.

6. As of java 5 the enhanced for loop was introduced. This is mainly used for Arrays. Below code contains few mistakes. First execute the code. Then identify the errors printed on the console. Rectify all the errors and execute to get the output:

Answers-

```
01)
package com.mycompany.helloword;
public class Helloword
{
  public static void main(String[] args)
  {
    System.out.println("Hello World!");
  }
02)
public class C2 {
  public static void main(String[] args) {
```

```
System.out.println("T.A.Sandali Sewmini");

System.out.println("Software Engineering");

}

Command Prompt
Microsoft Windows [Version 10.0.19045.2728]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd\
C:\Users\HP\Desktop>javac C2.java

C:\Users\HP\Desktop>javac C2.java

C:\Users\HP\Desktop>javac C2
T.A.Sandali Sewmini
Software Engineering

C:\Users\HP\Desktop>
```

03)FOR LOOP

```
package com.mycompany.forloop;
public class Forloop
{
    public static void main(String[] args)
```

```
{
    int i;
    for(i=0;i<5;i++)
    System.out.println("Executing Loop"+i);
  }
While Loop
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++;
    }
```

```
04)
package com.mycompany.qestion;
public class Qestion {
  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");
  }
```

```
Com.mycompany.qestion.Qestion

Output - Run (qestion) ×

Output - Run
```

• Using continue

```
package com.mycompany.qestion;
public class Qestion {

  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 - Run (qestion) ×
     --- exec-maven-plugin:3.1.0:exec (default-cli) @ qestion ---
     40
    I'm out of the Loop now
     BUILD SUCCESS
05)
package com.mycompany.qestion;
public class Qestion
  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);
}
 com.mycompany.qestion.Qestion
Output - Run (qestion) ×
\square
D --- exec-maven-plugin:3.1.0:exec (default-cli) @ qestion ---
      Excellent!
      Your grade is A
      BUILD SUCCESS
      Total time: 0.508 s
```

 Removing "break" command at line number 6 package com.mycompany.qestion;

```
public class Qestion
  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);
}
```

```
🖒 com.mycompany.qestion.Qestion 🔪 🌗 main 🔊 switch (grade) 🔊
Output - Run (qestion) \times
L --- exec-maven-plugin:3.1.0:exec (default-cli) @ qestion ---
     You passed
     Better try again

    Your grade is A

      BUILD SUCCESS
Using if-else-if
package com.mycompany.qestion;
public class Qestion
  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);
    }
Output - Run (qestion) ×
    --- exec-maven-plugin:3.1.0:exec (default-cli) @ qestion ---
    Excellent!
    Your grade is A
    Total time: 2.070 s
    Finished at: 2023-05-15T12:40:42+05:30
```

```
06)
package com.mycompany.testenhanceforloop;
public 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

