



| Course Code | OCAJP8 |
|-------------------|----------------|
| Section | Topic_5 |
| Student Name | Dominic Kgoete |
| Student Signature | Egant. |
| Date | 16 – 01 - 2020 |

1. Program Objective and Summary

- Create and use while loops
- · Create and use for loops including the enhanced for loop
- Create and use do/while loops
- Compare loop constructs
- Use break and continue

2. Tools (Clearly state the IDE, Databases, languages used)

Intellj IDEA

3. Code

```
/* **** Topic 3: Using Loop Construct
* Objectives:
* 1 Create and use while loops
* 2 Create and use do/while loops
* 3 Compare loop construct
* 4 Use break and continue
package com.company;
import java.util.Scanner;
public class Main {
 public static void main(String[] args) {
           usingWhileLoop();
           usingForLoops();
           usingBreak();
 }
 public static void usingWhileLoop () {
    //In this program we will find the factorial of a number entered
    System.out.println("1. Finding factorial using while loop".toUpperCase());
    int number;
    System.out.print("Enter any integer number: ");
    Scanner scanner = new Scanner(System.in);
    number = scanner.nextInt();
    long fact = 1;
    int i = 1;
    while(i <= number){
```





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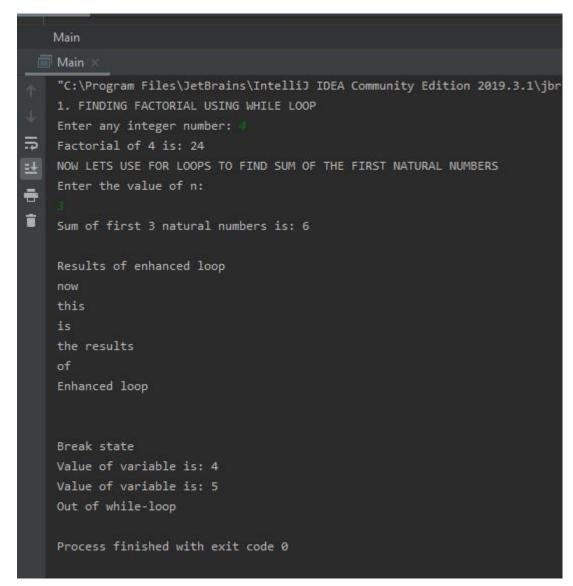
```
fact = fact * i;
      i++;
    System.out.println("Factorial of "+number+" is: "+fact);
  }
  public static void usingForLoops(){
    //this program will help you find sum of the natural numbers
    System.out.println("Now lets use For loops to find sum of the first natural numbers".toUpperCase());
    int number, count, total = 0;
    System.out.println("Enter the value of n:");
    //Scanner is used for reading user input
    Scanner scan = new Scanner(System.in);
    //nextInt() method reads integer entered by user
    number = scan.nextInt();
    //closing scanner after use
    scan.close();
    for(count = 1; count <= number; count++){</pre>
      total = total + count;
    }
    System.out.println("Sum of first "+number+" natural numbers is: "+total+ "\n");
    System.out.println("Results of enhanced loop");
    String \ arr[] = {\tt "now","this","is","the results","of","Enhanced loop \verb|\n\n"|};
    for (String str : arr){
      System.out.println(str);
    }
  }
  public static void usingBreak(){// Break statement
    System.out.println("Break state");
    int num =4;
    while(num<=5)
      System.out.println("Value of variable is: "+num);
      if (num==2)
         break;
      }
      num++;
    System.out.println("Out of while-loop");
  }
}
```

4. Output (Please attach screen output as evidence)





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Clone: https://github.com/lorthbroth/OCA-java-se8-programmer-1.git to compile

5. Completed Practical Assignment Template
Completed Practical Assignment Template and attach it on LMS as a pdf file