



Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	E side
Date	15 – 01 - 2020

1. Program Objective and Summary

- Use Java operators; including parentheses to override operator precedence
- Test equality between Strings and other objects using == and equals ()
- Create if and if/else and ternary constructs
- Use a switch statement
 - 2. Tools (Clearly state the IDE, Databases, languages used)

Intellj IDEA

3. Code

```
**** Topic 3: Using Operators and Decision Constructs ****
* OBJECTIVES:
* 1 Use Java operators; including parentheses to override operator precedence
* 2 Test equality between Strings and other objects using == and equals ()
* 3 Create if and if/else and ternary constructs
* 4 Use a switch statement
package com.company;
import java.sql.SQLOutput;
import java.util.Scanner;
public class Main {
  public static void main(String[] args) {
    System.out.println("Topic 3: Using operators and Decision Constructs");
    part1(); // operators, operands and expressions
    part2(); // Using switch statement
  public static void part1() {
      Three types of operators:
      - infix: expr <op> expr, e.g. 2 + 2
      - prefix: <op> expr, e.g. -5
      - postfix: expr <op>, e.g. i++
      Java has operator overloading predefined
      no programmer-defined
    Scanner scanner = new Scanner(System.in);
    // infix
    System.out.println("Operators, operands and expressions");
```



case 4:



Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	Egant.
Date	15 – 01 - 2020

```
System.out.println("Please enter any two integers to multiply: ");
    int number1 = scanner.nextInt();
    int number2 = scanner.nextInt();
    int results = number1 * number2;
    // prefix
    System.out.println("results of your numbers turned into a negative number: " + -results); // -4
    System.out.println("Results incremented then added to the results: " + ++results); // 5;
increment a, then get value
    System.out.println((results--) + ": number1 * number2 then + 1 then - 1");
    // postfix
    System.out.println(results); // 4
      arithmetic operators and operator precedence
    System.out.println("arithmetic operators and operator precedence");
    System.out.println("Modulo".toUpperCase());
    System.out.print("Please enter number between 0 and 9: ");
    int number = scanner.nextInt();
      below are if and else statements constructs plus equality operator
    if(number % 2 == 0) // == is the boolean expression
      System.out.println(number + " is an EVEN number");
    else
      System.out.println(number + " is an ODD number");
  }
  public static void part2(){
    Scanner scanner = new Scanner(System.in);
    System.out.println("Using Switch statement to find day of the weeek");
    System.out.print("Please enter a number between 1 and 7 to find out: ");
    int week = scanner.nextInt();
    String day;
    switch (week) {
      case 1:
        day = "Sunday is the 1st day of the week";
        break;
      case 2:
        day = "Monday is the 2nd day of the week";
        break;
      case 3:
        day = "Tuesday is the 3rd day of the week";
        break;
```





Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	Egant.
Date	15 – 01 - 2020

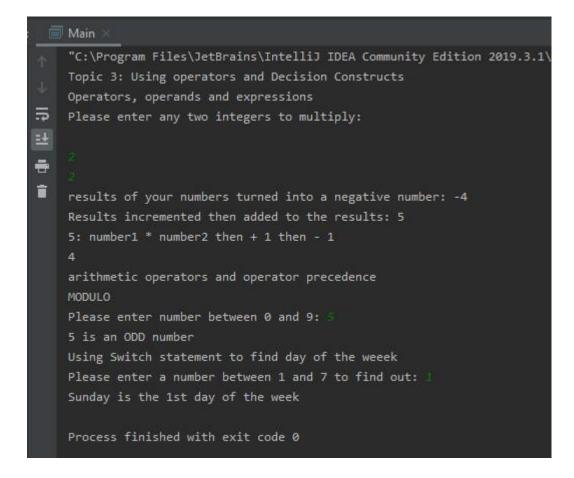
```
day = "Wednesday is the 4th day of the week";
        break;
      case 5:
         day = "Thursday is the 5th day of the week";
        break;
      case 6:
        day = "Friday is the 6th day of the week";
        break;
      case 7:
         day = "Saturday is the 7th and last day of the week";
      default:
        day = "Invalid day";
        break;
    System.out.println(day);
 }
}
```

4. Output (Please attach screen output as evidence)





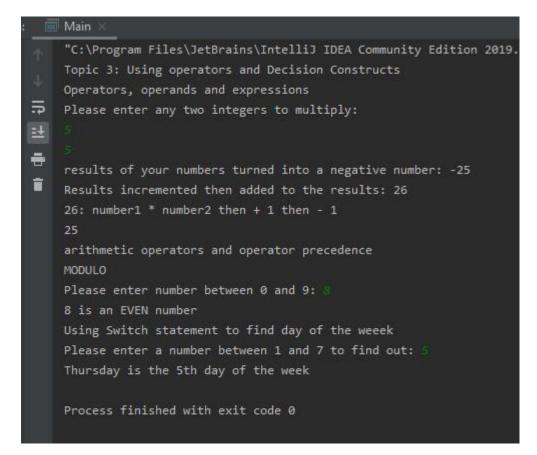
Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	Egode.
Date	15 – 01 - 2020







Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	Egant.
Date	15 – 01 - 2020







Course Code	OCAJP8
Section	Topic_3
Student Name	Dominic Kgoete
Student Signature	E side
Date	15 – 01 - 2020

```
Main
 "C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019.3
 Topic 3: Using operators and Decision Constructs
 Operators, operands and expressions
 Please enter any two integers to multiply:
 results of your numbers turned into a negative number: -6
 Results incremented then added to the results: 7
 7: number1 * number2 then + 1 then - 1
 arithmetic operators and operator precedence
 MODULO
 Please enter number between 0 and 9: 1
 1 is an ODD number
 Using Switch statement to find day of the weeek
 Please enter a number between 1 and 7 to find out: 8
 Invalid day
 Process finished with exit code 0
```

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