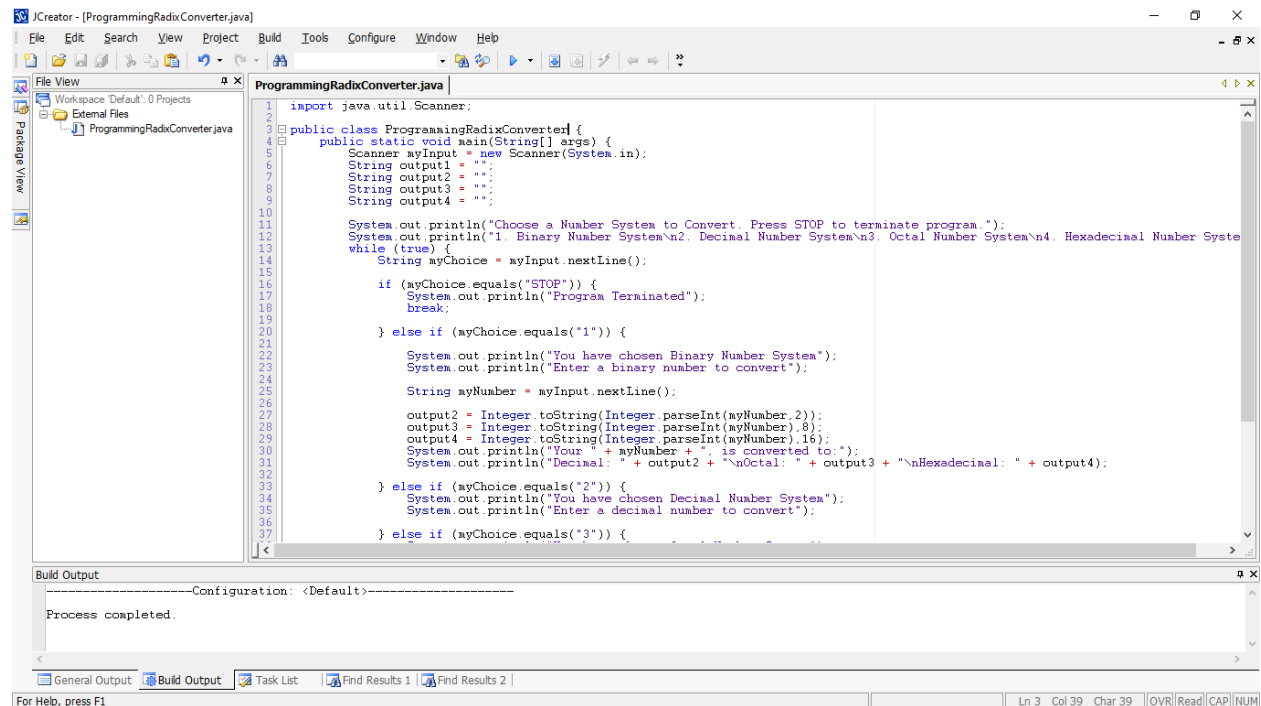


CC1-B

Quest 2.2 - Programming: Radix Converter



```
1 import java.util.Scanner;
2
3 public class ProgrammingRadixConverter {
4     public static void main(String[] args) {
5         Scanner myInput = new Scanner(System.in);
6         String output1 = "";
7         String output2 = "";
8         String output3 = "";
9         String output4 = "";
10
11         System.out.println("Choose a Number System to Convert. Press STOP to terminate program.");
12         System.out.println("1. Binary Number System\n2. Decimal Number System\n3. Octal Number System\n4. Hexadecimal Number System");
13         while (true) {
14             String myChoice = myInput.nextLine();
15
16             if (myChoice.equals("STOP")) {
17                 System.out.println("Program Terminated");
18                 break;
19             }
20             else if (myChoice.equals("1")) {
21                 System.out.println("You have chosen Binary Number System");
22                 System.out.println("Enter a binary number to convert");
23
24                 String myNumber = myInput.nextLine();
25
26                 output2 = Integer.toString(Integer.parseInt(myNumber, 2));
27                 output3 = Integer.toString(Integer.parseInt(myNumber, 8));
28                 output4 = Integer.toString(Integer.parseInt(myNumber, 16));
29                 System.out.println("Your " + myNumber + " is converted to:");
30                 System.out.println("Decimal: " + output2 + "\nOctal: " + output3 + "\nHexadecimal: " + output4);
31
32             }
33             else if (myChoice.equals("2")) {
34                 System.out.println("You have chosen Decimal Number System");
35                 System.out.println("Enter a decimal number to convert");
36
37             }
38             else if (myChoice.equals("3")) {
39                 System.out.println("You have chosen Octal Number System");
40                 System.out.println("Enter a octal number to convert");
41
42             }
43             else if (myChoice.equals("4")) {
44                 System.out.println("You have chosen Hexadecimal Number System");
45                 System.out.println("Enter a hexadecimal number to convert");
46
47             }
48             else {
49                 System.out.println("Error! Choice is not in the list!");
50             }
51         }
52     }
53 }
```

Build Output

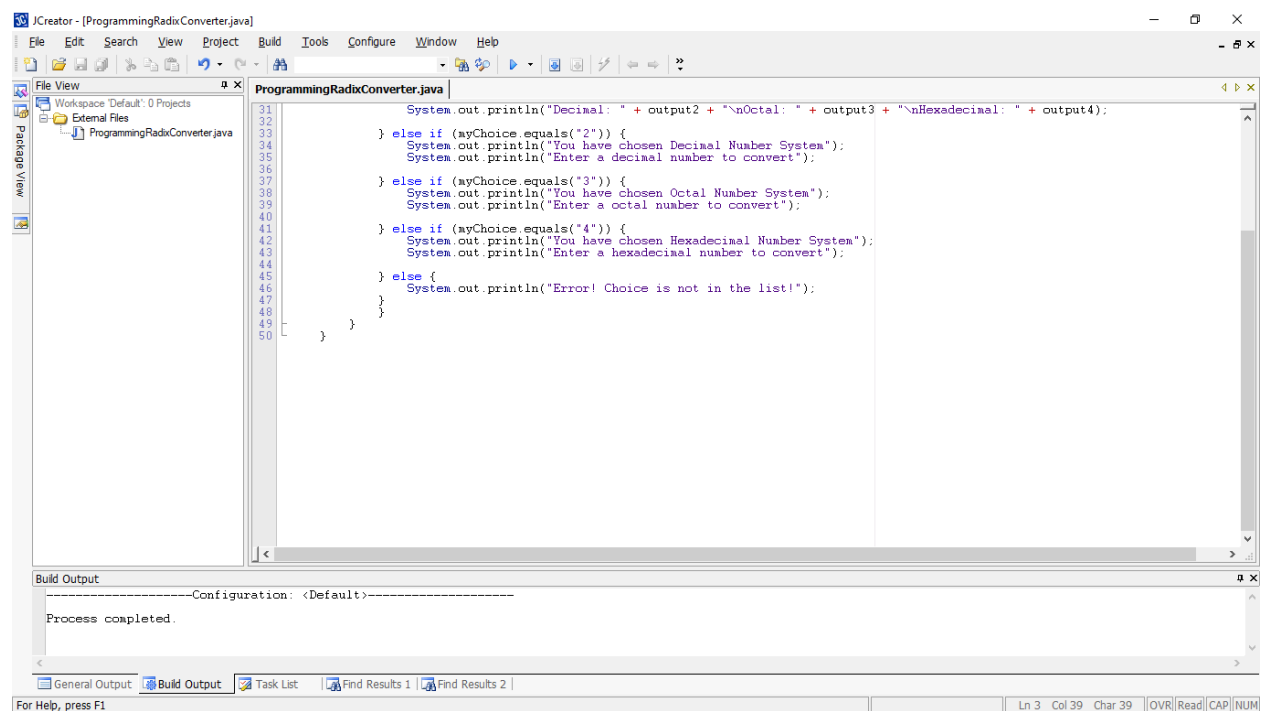
Configuration: <Default>

Process completed.

General Output | Build Output | Task List | Find Results 1 | Find Results 2

For Help, press F1

Ln 3 Col 39 Char 39 OVR|Read|CAP|NUM



```
31         System.out.println("Decimal: " + output2 + "\nOctal: " + output3 + "\nHexadecimal: " + output4);
32     }
33     else if (myChoice.equals("2")) {
34         System.out.println("You have chosen Decimal Number System");
35         System.out.println("Enter a decimal number to convert");
36
37     }
38     else if (myChoice.equals("3")) {
39         System.out.println("You have chosen Octal Number System");
40         System.out.println("Enter a octal number to convert");
41
42     }
43     else if (myChoice.equals("4")) {
44         System.out.println("You have chosen Hexadecimal Number System");
45         System.out.println("Enter a hexadecimal number to convert");
46
47     }
48     else {
49         System.out.println("Error! Choice is not in the list!");
50     }
51 }
52 }
```

Build Output

Configuration: <Default>

Process completed.

General Output | Build Output | Task List | Find Results 1 | Find Results 2

For Help, press F1

Ln 3 Col 39 Char 39 OVR|Read|CAP|NUM

```
C:\PROGRA~2\XINOXS~1\JCREAT~1\GE2001.exe
Choose a Number System to Convert. Press STOP to terminate program.
1. Binary Number System
2. Decimal Number System
3. Octal Number System
4. Hexadecimal Number System
1
You have chosen Binary Number System
Enter a binary number to convert
10001
Your 10001, is converted to:
Decimal: 17
Octal: 23421
Hexadecimal: 2711
STOP
Program Terminated
Press any key to continue..._
```

```
import java.util.Scanner;
```

```
public class ProgrammingRadixConverter {
    public static void main(String[] args) {
        Scanner myInput = new Scanner(System.in);

        String output1 = "";
        String output2 = "";
        String output3 = "";
        String output4 = "";

        System.out.println("Choose a Number System to Convert. Press STOP to terminate program.");

        System.out.println("1. Binary Number System\n2. Decimal Number System\n3. Octal Number System\n4. Hexadecimal Number System");

        while (true) {
            String myChoice = myInput.nextLine();

            if (myChoice.equals("STOP")) {
```

```
System.out.println("Program Terminated");
break;

} else if (myChoice.equals("1")) {

    System.out.println("You have chosen Binary Number System");
    System.out.println("Enter a binary number to convert");

    String myNumber = myInput.nextLine();

    output2 = Integer.toString(Integer.parseInt(myNumber,2));
    output3 = Integer.toString(Integer.parseInt(myNumber),8);
    output4 = Integer.toString(Integer.parseInt(myNumber),16);
    System.out.println("Your " + myNumber + ", is converted to:");
    System.out.println("Decimal: " + output2 + "\nOctal: " + output3 + "\nHexadecimal: " +
output4);

} else if (myChoice.equals("2")) {
    System.out.println("You have chosen Decimal Number System");
    System.out.println("Enter a decimal number to convert");

} else if (myChoice.equals("3")) {
    System.out.println("You have chosen Octal Number System");
    System.out.println("Enter a octal number to convert");

} else if (myChoice.equals("4")) {
    System.out.println("You have chosen Hexadecimal Number System");
    System.out.println("Enter a hexadecimal number to convert");
```

```
} else {  
    System.out.println("Error! Choice is not in the list!");  
}  
  
}  
  
}
```