

```
1 //to create a menu driven program
2 import java.util.Scanner;
3
4 public class NumberConverter
5 {
6     public static void main() //class starts
7     {
8         Scanner sc = new Scanner(System.in); //main starts
9
10        while (true) {
11            System.out.println("\nMenu:");
12            System.out.println("1. Convert Hexadecimal to Decimal");
13            System.out.println("2. Convert Decimal to Hexadecimal");
14            System.out.println("3. Exit");
15            System.out.print("Enter your choice: ");
16            int choice = sc.nextInt();
17
18            switch (choice) {
19                //choices provided to the user
20                case 1:
21                    convertHexToDecimal();
22                    break;
23                case 2:
24                    convertDecimalToHex();
25                    break;
26                case 3:
27                    System.out.println("Exiting...");
28
29                    sc.close();
30                    return;
31                default:
32                    System.out.println("Invalid choice! Please enter a valid
33 option.");
34            }
35        }
36    }
37
38    public static void convertHexToDecimal() {
39        //converts hexa decimal to decimal
40        Scanner sc = new Scanner(System.in);
41        System.out.print("Enter a hexadecimal number: ");
42        String hexString = sc.nextLine();
43        try {
44            int decimal = Integer.parseInt(hexString, 16);
45            System.out.println("Decimal equivalent: " + decimal);
46        } catch (NumberFormatException e) {
47            System.out.println("Invalid hexadecimal number format!");
48        }
49    }
50
51    public static void convertDecimalToHex() {
```

```
46 Scanner sc = new Scanner(System.in);
47 System.out.print("Enter a decimal number: ");
48 int decimal = sc.nextInt();
49 String hexString = Integer.toHexString(decimal);
50 System.out.println("Hexadecimal equivalent: " + hexString.toUpperCase());
51 }
52 //class ends
53 }
54 //main ends
55
```