## Institute of Computer Technology B. Tech. Computer Science and Engineering

Semester: III

**Sub: Object-Oriented Programming** 

**Course Code: 2CSE303** 

## **Practical Number:4**

## **Objective:**

To learn about switch case condition in java.

- Q1. Find month name on the basis of user input month number (1 to 12).
- Q2. Find weekday name on the basis of user input week-days number (1-7).
- Q3. Check, whether the user number is even or odd.
- Q4. Find highest and lowest number from the user input random three numbers.
- Q5. Check whether the two String name is same or not.

## Code:

```
System.out.print("Enter your choice: ");
  choice = scanner.nextInt();
  switch (choice) {
     case 1:
       findMonthName(scanner);
       break;
     case 2:
       findWeekdayName(scanner);
       break;
     case 3:
       checkEvenOdd(scanner);
       break;
     case 4:
       findHighestLowest(scanner);
       break;
     case 5:
       compareStrings(scanner);
       break;
     case 6:
       System.out.println("Exiting program.");
       break;
     default:
       System.out.println("Invalid choice! Please try again.");
  }
  System.out.println(); // Add a newline for better readability between operations
} while (choice != 6);
```

```
scanner.close();
}
// Case 1: Find month name by month number
private static void findMonthName(Scanner scanner) {
  System.out.print("Enter a month number (1-12): ");
  int month = scanner.nextInt();
  String monthName;
  switch (month) {
    case 1: monthName = "January"; break;
    case 2: monthName = "February"; break;
    case 3: monthName = "March"; break;
    case 4: monthName = "April"; break;
    case 5: monthName = "May"; break;
    case 6: monthName = "June"; break;
    case 7: monthName = "July"; break;
    case 8: monthName = "August"; break;
    case 9: monthName = "September"; break;
     case 10: monthName = "October"; break;
     case 11: monthName = "November"; break;
     case 12: monthName = "December"; break;
     default: monthName = "Invalid month number!"; break;
  }
  System.out.println("Month: " + monthName);
}
// Case 2: Find weekday name by weekday number
private static void findWeekdayName(Scanner scanner) {
  System.out.print("Enter a weekday number (1-7): ");
  int day = scanner.nextInt();
```

```
String dayName;
  switch (day) {
    case 1: dayName = "Sunday"; break;
    case 2: dayName = "Monday"; break;
    case 3: dayName = "Tuesday"; break;
    case 4: dayName = "Wednesday"; break;
    case 5: dayName = "Thursday"; break;
    case 6: dayName = "Friday"; break;
     case 7: dayName = "Saturday"; break;
     default: dayName = "Invalid weekday number!"; break;
  }
  System.out.println("Day: " + dayName);
}
// Case 3: Check whether the number is even or odd
private static void checkEvenOdd(Scanner scanner) {
  System.out.print("Enter a number to check if it's even or odd: ");
  int number = scanner.nextInt();
  switch (number % 2) {
     case 0:
       System.out.println("The number is even.");
       break;
     case 1:
       System.out.println("The number is odd.");
       break;
     default:
       System.out.println("Error: Invalid input.");
       break;
  }
```

```
}
// Case 4: Find the highest and lowest number among three numbers
private static void findHighestLowest(Scanner scanner) {
  System.out.print("Enter three numbers: ");
  int num1 = scanner.nextInt();
  int num2 = scanner.nextInt();
  int num3 = scanner.nextInt();
  int highest, lowest;
  // Finding the highest number
  if (num1 >= num2 && num1 >= num3) {
     highest = num1;
  } else if (num2 >= num1 && num2 >= num3) {
     highest = num2;
  } else {
     highest = num3;
  }
  // Finding the lowest number
  if (num1 <= num2 && num1 <= num3) {
     lowest = num1;
  } else if (num2 <= num1 && num2 <= num3) {
     lowest = num2;
  } else {
    lowest = num3;
  }
  System.out.println("Highest number: " + highest);
  System.out.println("Lowest number: " + lowest);
```

}

```
// Case 5: Check whether two strings are the same
  private static void compareStrings(Scanner scanner) {
     scanner.nextLine(); // Consume the newline character
     System.out.print("Enter the first string: ");
     String str1 = scanner.nextLine();
     System.out.print("Enter the second string: ");
     String str2 = scanner.nextLine();
     if (str1.equals(str2)) {
       System.out.println("The strings are the same.");
     } else {
       System.out.println("The strings are different.");
    }
  }
}
Output:
Press <1> to find the month name by month number (1-12).
Press <2> to find the weekday name by weekday number (1-7).
Press <3> to check whether the number is even or odd.
Press <4> to find the highest and lowest number among three numbers.
Press <5> to check whether two strings are the same.
Press <6> to exit
Enter your choice: 1
Enter a month number (1-12): 4
Month: April
Press <1> to find the month name by month number (1-12).
Press <2> to find the weekday name by weekday number (1-7).
```

Press <3> to check whether the number is even or odd.

Press <4> to find the highest and lowest number among three numbers.

Press <5> to check whether two strings are the same.

Press <6> to exit

Enter your choice: 2

Enter a weekday number (1-7): 4

Day: Wednesday

Press <1> to find the month name by month number (1-12).

Press <2> to find the weekday name by weekday number (1-7).

Press <3> to check whether the number is even or odd.

Press <4> to find the highest and lowest number among three numbers.

Press <5> to check whether two strings are the same.

Press <6> to exit

Enter your choice: 3

Enter a number to check if it's even or odd: 4

The number is even.

Press <1> to find the month name by month number (1-12).

Press <2> to find the weekday name by weekday number (1-7).

Press <3> to check whether the number is even or odd.

Press <4> to find the highest and lowest number among three numbers.

Press <5> to check whether two strings are the same.

Press <6> to exit

Enter your choice: 4

Enter three numbers: 456

Highest number: 6

Lowest number: 4

Press <1> to find the month name by month number (1-12).

Press <2> to find the weekday name by weekday number (1-7).

Press <3> to check whether the number is even or odd.

Press <4> to find the highest and lowest number among three numbers.

Press <5> to check whether two strings are the same.

Press <6> to exit

Enter your choice: 5

Enter the first string: hii

Enter the second string: hee

The strings are different.

Press <1> to find the month name by month number (1-12).

Press <2> to find the weekday name by weekday number (1-7).

Press <3> to check whether the number is even or odd.

Press <4> to find the highest and lowest number among three numbers.

Press <5> to check whether two strings are the same.

Press <6> to exit

Enter your choice: 6

Exiting program.