# Module 04: Midterm - Debugging Assignment

In this assignment you will demonstrate your knowledge of debugging by fixing the errors you find in the program below. Fix the code, and paste it in this document, along with the list of the problems you fixed.

This example allows the user to display the string for the day of the week. For example, if the user passed the integer 1, the method will return the string Sunday. If the user passed the integer 2, the method will return Monday. This code has both syntax errors and logic errors. Hint: There are three logic errors to find and fix (in addition to the syntax errors).

Inport daysAndDates.DaysOfWeek;

**public** **class** TestDaysOfWeek {

**public** **static** **void** main(String[] args) {

System.***out***.println("Days Of week: ");

**for** (**int** i = 0;i < 8;i++) {

System.***out***.println("Number: " + i + "\tDay Of Week: " + DaysOfWeek.*DayOfWeekStr*(i) )

}

}

}

**package** daysAndDates

**public** **class** DaysOfWeek {

**public** **static** String DayOfWeekStr(**int** NumberOfDay) {

String dayStr = ""

**switch** (NumberOfDay) {

**case** 1:

dayStr = "Sunday";

**break**;

**case** 2:

dayStr = "Monday";

**break**;

**case** 3:

dayStr = "Tuesday"

**break**;

**case** 4:

dayStr = "Wednesday";

**case** 5:

dayStr = "Thursday";

**break**;

**case** 6:

dayStr = "Thursday";

**break**;

**case** 7:

dayStr = "Saturday";

**break**;

}

}

}

CORRECTED CODE:

import daysAndDates.DaysOfWeek;

public class TestDaysOfWeek {

public static void main (String[] args) {

System.out.println(“Days Of week: “);

for (int i = 1; i < 8 ; i++) {

System.out.println(“Number: “ + i + “\tDay Of Week: “ + DaysOfWeek.DayOfWeekStr(i));

}

}

}

package daysAndDates;

public class DaysOfWeek {

public static String DayOfWeekStr(int NumberOfDay) {

String dayStr = “”;

Switch (NumberOfDay) {

case 1:

dayStr = “Sunday”;

break;

case 2:

dayStr = “Monday”;

break;

case 3:

dayStr = “Tuesday”;

break;

case 4:

dayStr = “Wednesday”;

break;

case 5:

dayStr = “Thursday”;

break;

case 6:

dayStr = “Friday”;

break;

case 7:

dayStr = “Saturday”;

break;

default:

dayStr = “Invalid day”;

}

return dayStr;

}

}

LIST OF PROBLEMS FIXED:

1. **Fixed import typo**
2. **Corrected logic error in for loop, starting loop at 1 instead of 0.**
3. **Added missing semicolon** after System.out.println()
4. **Added missing semicolon** after String dayStr = ""
5. **Added missing semicolon** after "Tuesday"
6. **Added break after case 4**
7. **Removed extra case for Thursday**
8. **Added missing return statement** in DayOfWeekStr() method
9. **Added missing semicolon after package daysAndDates**
10. **Default case** added for invalid input