

Philip Pesic

Week 5

February 19 2023

Week 5 Prog 5

Program 5 – Fix the code in this program. Fix lines, add lines...

Comment each line that you fixed ... what you did to fix it. ( See program 2 video above )

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

```
public static void main(String[] args)
```

```
{ // This program Converts grade Points into a Letter grade. int gradePoints == 00; // Declare  
variable and assign initial value
```

```
System.out.printl("Enter Grade Points: ");
```

```
//Input gradePoints;
```

```
if ( gradePoints >= -42 )
```

```
{ System.out.println("Grade = A"); }
```

```
// if true, then ends here, if false drop to next line
```

```
else if ( gradePoints <= 80 ) { System.out.println("Grade = B"); }
```

```
//if true, then ends here, if false drop to next line
```

```
else if ( gradePoints >= 70 ) { System.out.println("Grade = C"); }
```

```
//if true, then ends here, if false drop to next line
```

```
else if ( gradePoints >= 60 ) { System.out.println("Grade = D"); }
```

```
// if true, then ends here, if false drop to next line
```

```
else { System.out.println("Grade = A"); } // done.
```

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}

```
package prog5;
import java.util.Scanner;

class prog5 { //Added Class Declaration
    public static void main(String[] args) {
        int gradePoints = 00;    //Changed == to =
        Scanner input = new Scanner(System.in); //Declared Scanner object

        System.out.println("Enter Grade Points: "); //Added ) and changed printl to
println
        gradePoints = input.nextInt(); //Inputted gradePoints

        if (gradePoints >= 90) { //Changed -42 to 90
            System.out.println("Grade = A");
        }
        else if (gradePoints >= 80) { //Changed =< to <=
            System.out.println("Grade = B");
        }
        else if (gradePoints >= 70) {
            System.out.println("Grade = C");
        }

        else if (gradePoints >= 60) {
            System.out.println("Grade = D");
        }

        else {
            System.out.println("Grade = F"); //Added ) and changed A to F
        }

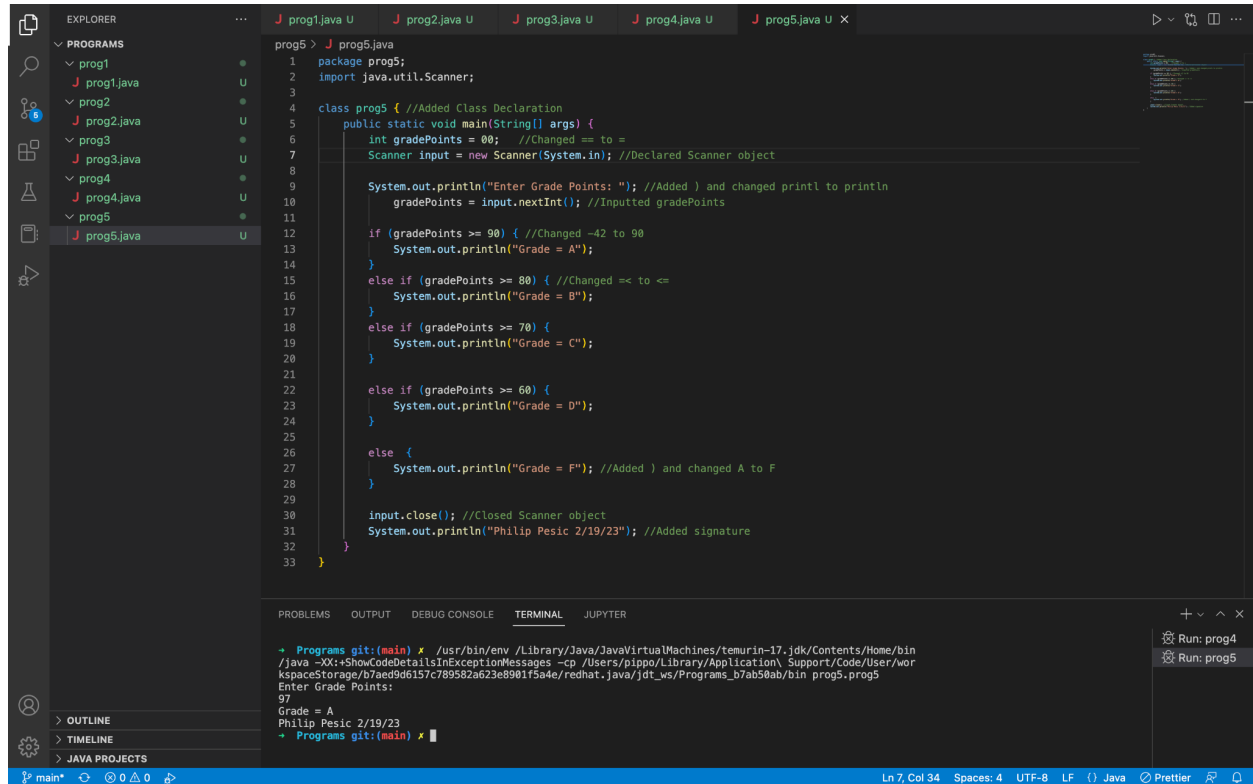
        input.close(); //Closed Scanner object
        System.out.println("Philip Pesic 2/19/23"); //Added signature
    }
}
```

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The screenshot shows an IDE with a project named 'PROGRAMS' containing five Java files: prog1.java, prog2.java, prog3.java, prog4.java, and prog5.java. The 'prog5.java' file is selected and open in the editor. The code in prog5.java is as follows:

```
1 package prog5;
2 import java.util.Scanner;
3
4 class prog5 { //Added Class Declaration
5     public static void main(String[] args) {
6         int gradePoints = 00; //Changed == to =
7         Scanner input = new Scanner(System.in); //Declared Scanner object
8
9         System.out.println("Enter Grade Points: "); //Added ) and changed printl to println
10        gradePoints = input.nextInt(); //Inputted gradePoints
11
12        if (gradePoints >= 90) { //Changed -42 to 90
13            System.out.println("Grade = A");
14        }
15        else if (gradePoints >= 80) { //Changed <= to <=
16            System.out.println("Grade = B");
17        }
18        else if (gradePoints >= 70) {
19            System.out.println("Grade = C");
20        }
21
22        else if (gradePoints >= 60) {
23            System.out.println("Grade = D");
24        }
25
26        else {
27            System.out.println("Grade = F"); //Added ) and changed A to F
28        }
29
30        input.close(); //Closed Scanner object
31        System.out.println("Philip Pesic 2/19/23"); //Added signature
32    }
33 }
```

The bottom of the IDE shows the 'TERMINAL' tab with the following output:

```
Programs git:(main) x /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin
/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/wor
kspaceStorage/b7aed9d6157c789582a623e8901f5a4e/redhat.java/jdt_ws/Programs_b7ab50ab/bin prog5.prog5
Enter Grade Points:
97
Grade = A
Philip Pesic 2/19/23
Programs git:(main) x
```

I learned: how to debug if/else statements