CS172 Quiz 2

Note: This is an open book quiz. You can refer to any book, slides, videos, or other online resources. However, your work must be independent and should not get help from another person. You can choose to write on this Word document directly, or hand writing on a hard copy and scan it before uploading to D2L.

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Score

1. (4 points) Read the following Java sentences, point out and correct the error for each case.

```
if (x = 3, output = 0;

if (x = 0)

this is an error and would

not work, needs to be "==""

output = 10;

b. double GPA = 3.5;

if (GPA >= 3.8)

Semi-colon needs to be removed, otherwise

statement prints even though

System.out.println("You are super!");

}
```

2. (8 points) Read the following Java sentences and write the printout result.

```
b. int age = 32;
   double output = 0;
   if(age > 35)
    output = 5;
   else
    output = 10;
    System.out.println("output = "+output);
     output = 10.0
c. int experience = 15;//working experience (years)
   double output = 0; //bonus
   if( experience >= 30)
    output = 5000;
   else if( experience >= 20)
    output = 4000;
   else if( experience >= 10)
    output = 3000;
   else
    output = 2000;
    System.out.println("output = "+output);
     Printout
    output = 3000.0
```

```
d. int N = 2, output = 0;
switch (N) {
    case 1: output = 10;
    case 2: output = 20;
    case 3: output = 30;
        break;
    default: output = 50;
        break;
}
System.out.println("output = "+output);
Printout
```

- 3. (8 points) Write a program to implement the following function.
 - (1) Allow the user to input one's age through the keyboard.
 - (2) If one's age is greater than or equal to 17, print out the words "You are eligible for driving."
 - (3) Otherwise, print out the words "You still need to wait X years". Make sure the final printout will replace X with the actual number.

```
public class Main &
   public static void man (String args[]) {
           Scanner myscanner = new Scanner (System. in);
           Il declare variables
         int age = 0;
int yearWait = 0;
// ask for input
        System out printing How old are you?");
       age = my Scanner next Int();
       Il check are eligible
       if (age >= 171
       System out printin ("You are eligible for driving.");
       ? Return;
    Il make sure age isn't reportine
    if (age LO)
      system out printin ("Invalid entry, tray again. ");
    Welse statement for under 17 and print
   clse
    (vearWait = 17 - age;
   System. out printingyou still need to wait "+ year Wait +" years");
```