CS172 Quiz 3

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.

| Name Gunnar | Yonker | Score |
|-------------|--------|-------|
| | | |

1. (8 points) Read the following Java sentences. Write the final result of value, and show the intermediate results if possible. Please explain if you think the program has logic error.

```
value = 0; This program will run

(value >= 0) indefinitely since it will always

value = value + 2; have value >= 0. First run
                 int value = 0;
    a.
                 while(value >= 0)
                                                  will be 2, then 4, 6, and so on. No break to stop the
                                                   while function
                                                 The do function will take
                 int value = 10;
    b.
                       value = value + 10; place with value equallity 20
                 do {
                                                  but then stop there since
                 }while (value <=20);</pre>
                                                the while loop is after the do. While loop also the do. While loop also has a semi colon which it shouldn't
          int i=1, value = 0; will can the while loop
    C.
          while (value <12) {
 value += i; until value becomes 15
                           which is greater than 12 so the while
                                loop Stops. No logic error on this one
          String sentence = "Hello Better";
          for(int i=6; i<9; i++)
                       System.out.print(sentence.charAt(i));
        The system will print out "Bet" and then program will stop, for loop 1=6 starts at B and
joes to char position 8 and prints out all inbetween.
2. (6 points) Read the following codes. Write out the results of the printing sentences.
Please point it out if you think there is any logic error.
```

```
public class FirstArray {
    public static void main(String args[]) {
        double [] salary = {3000, 5000, 1000, 4000};
```

```
double maximum = salary[0];
int maxindex = 0;
for (int i=0; i < salary.length; i++) {
    if (salary[i] > maximum ) {
        maximum = salary[i]; The $000.0 is the maxindex = i;
        maximum and the maximum }
}

System.out.println(maximum); for as I can tell the system.out.println(maximum); program would run properly.

System.out.println(maximum); the max salary in the array.
```

3. (8 points) Write Java codes in the following (not required to compile it) to do the following: a. Declare an array named score of 6 components of type int and initialize every element to 80

(You can choose either way of initialization).

b. Set the value of the 6th component of the array score to 75, Set the value of the 1st component of the array score to 92, set the value of the 3rd component of the array score to 84.

c. Print out all elements, with each element in a separate line.

```
public dass Array Example &

public static void main(string aigs[]) &

Int score[] = [80,80,80,80,80,80];

Wehange sixth number to 75

Score[] = 75;

I change first number to 92

Score [0] = 92;

Il change third number to 84

score[] = 84;

Il plint out each array element in our line

for (int scoreprint: score)

System.out, println(score print);

3
```