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CSCE 146

Lab Report 00

1. Describe how the course grade is calculated. Make sure to include assignment types and their percentages. (10pts)

Grade Breakdown

Type	Percentage of Overall Grade
Lab Solution Average (9 at 0.9% each)	**10%**
Lab Reports Average (9 at 0.9% each)	**10%**
Homework Average (8 at 10% each)	**80%**
Final Exam	**15%***

2. Where are all assignments submitted and where are the grades + feedback for assignments found? HINT: It's the same place, and it's not Blackboard. (10pts)
   All of our class' assignments are found at the CSE DropBox
3. What is the policy regarding,
   1. Late work?

      We do not accept late work in this course. Assignments are made available to everyone at the same time and are due at the same time. No credit will be given for late assignments. Exceptions to the late policy may be made on an emergency basis.
   2. Make-up work?

      Make-up work for assignments can be requested before the assignment is due. If there is a known conflict that will prevent submitting work at the assigned time, then the instructor must be informed before the deadline. These requests must be done electronically via email. Only a small fraction of assignments can be made up for any excuse(s). Outstanding make-up work must be completed and submitted before any additional make-up work can be issued.
   3. Regrade requests? (10pts)

      Regrade requests may only be made within ONE WEEK after the assignment has been graded. These requests must be done *electronically* via email to the instructor. Regrade requests only apply to previously submitted

work and we do not accept additional work after the fact. Multiple, frivolous regrade requests will disqualify future regrade requests. No work or regrade requests can be accepted after the last day of class. If there are grades missing by the last day of class those assignments will automatically be assigned a 0.

4. True or False. All assignments must be completed individually. (10pts)

   True

5. For programming assignments, what must be submitted to the CSCE Dropbox and what is its file extension? (10pts)

   All programming assignments (labs solutions, homework, and exam solutions) are to be written in the Java programming language and require the source files (JAVA file extension) to be submitted. All written assignments are to be submitted in a common word processor format (DOC, DOCX, or PDF file extensions).

6. In the Java Programming Language, when a source code is compiled using the Java Compiler, is it compile to machine code or byte code? (10pts)

   It complies from source code to byte code.

7. Looking at the below code snippet, is this code error free and if so, what will it print to the console? If the code does have errors, then describe all syntax, run-time, and logic errors and how they may be fixed. (10pts)

```
double j = 1024.8;
int i = j;
System.out.println(i);
```

   The error comes from assigning the double j to an int I in which the compiler cannot convert the double to an int and one cannot assign one variable to another as it interferes with the call stack of memory. Aka the compiler tries to refer one type of variable to another. One could just make the double i not j and then delete the second line to fix the code and have it print 1024.8.

8. Looking at the below code snippet, is this code error free and if so, what will it print to the console? If the code does have errors, then describe all syntax, run-time, and logic errors and how they may be fixed. (10pts)

```
int[] array = new array[10];
for(int i=0;i<array.length;i++)
{
    array[i] = i*2;
}
for(int i=0;i<=array.length;i++)
{
    System.out.println(array[i]);
}
```

The array never initializes and needs `public static final int ARRAY_SIZE = 10;` **to set the size of the array to 10, then the first line can be run as** `int[] array = new int[ARRAY_SIZE];` **then the array below will print.**

0
2
4
6
8
10
12
14
16
18

9. Looking at the below code snippet, is this code error free and if so, what will it print to the console? If the code does have errors, then describe all syntax, run-time, and logic errors and how they may be fixed. (10pts)

```
double j = 10.0;
while(j < 0.0);
{
    System.out.println(j);
    j -= 0.01;
}
```

This shit is busted, first off the "double" j is assigned to 10, and the while loop runs only if J is negative, which it will never become even though the while loop includes it, SEMI COLON AT END OF WHILE LOOP AS WELL, TOO CRAZY!

10. Looking at the below code snippet, is this code error free and if so, what will it print to the console? If the code does have errors, then describe all syntax, run-time, and logic errors and how they may be fixed. (10pts)

```
int value = 10;
if(value < 10)
{
    System.out.println("A");
}
else if(value % 2 == 0)
{
    System.out.println("B");
}
else if(value == 10)
{
    System.out.println("C");
}
if(value/2 == 5 && value/5 == 2)
{
    System.out.println("D");
}
else if(value*2 < 50 || value != 19)
{
    System.out.println("E");
}
else
{
    System.out.println("End");
}
```

Bring your brooms because it's a mess. Why is there an if statement for the value being less than 10, as it is defined to be 10, useless? Next, we see the first else if that would print B as the value is divisible by two, and then the console would skip C because it is an else if. D will be the next thing running into the console as 10/2 =5 and(&&) 10/2 = 5 the logic makes sense, thus E will not be run or processed just like C. The final end statement will never print as each of the if statements produce an output.