**Computer Programming 12**

Please read each portion of the following pages carefully. Many of these questions will require some time to research and develop an appropriate answer. Please be mindful not to just copy answers from the internet, rework them into your own words. It’s worth 100 marks and makes up 4% of your overall grade. Please answer right on this form.

**Course Selection/Student Learning Plan (SLP) Form  
Answer the following questions and fill in the table below.**

1. Why have you selected this course and how does it fit into your Educational Goals?

Click or tap here to enter text.

1. What grade are you currently in?

Click or tap here to enter text.

**Questions**

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| 1. Take a screen shot of a “Hello World” program in Intelij using Java.   (Please resize so the image is readable). |
| Win + Shift + s to take screen snap] Paste it here (Ctrl + v) |

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| 1. What are different behaviours between reference data and primitive data? Use an example. |
| Click or tap here to enter text. |

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| 1. Write a simple program in Java that can do the following: (Screen Shot of code will suffice) Ask the user how many hot dogs they want to buy. Ask the user how many drinks they want to buy. Print out the total they owe including taxes (12%) $3.50 for hotdogs and $1.00 for drinks. |
| Win + Shift + s to take screen snap] Paste it here (Ctrl + v) |

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| 1. Write code that makes an array that holds integers. Fill it with random numbers then reverse the order of the array using a for loop. (Screen shot) |
| Win + Shift + s to take screen snap] Paste it here (Ctrl + v) |

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| 1. Create the following Data Type: (Screen Shot) |
| Win + Shift + s to take screen snap] Paste it here (Ctrl + v) |

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| 1. What would be the output of the following: String name = “John Carmack”; System.out.println(name.substring(6)); |
| Click or tap here to enter text. |

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| 1. What would be the output of the following: int x = 20; int y = 15; boolean z = false; System.out.println(!z || x < y); |
| Click or tap here to enter text. |

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| 1. Create a GitHub repository for this course called *YourName*Programming12 (Link) |
| Click or tap here to enter text. |

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| 1. Write a program that can determine what quadrant a coordinate falls. (GitHub link) Use scanner to read 2 lines of code from keyboard inputs, the first line is the x-coordinate and the second line is the y-coordinate determine which quadrant it falls in by printing out “Quadrant #” |
| Click or tap here to enter text. |

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| 1. Write a program that can solve the following program: (Github Link) Scanner takes in a text file called “happyorsad.txt” Reads 1 line of text Detects if there is a happy emoticon :-) or a sad emoticon :-(  Outputs the following:  None detected print none  equal amount print unsure  more happy than sad print happy  more sad than happy print sad   [Please also provide the text in the file to test:] |
| Click or tap here to enter text. |

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| 1. What programming experience if any do you have? |
| Click or tap here to enter text. |

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| 1. Why does learning about programming interest you? |
| Click or tap here to enter text. |

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| 1. Do you intend to pursue a career in computer science? |
| Click or tap here to enter text. |

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| 1. What topics about computer science interest you the most? |
| Click or tap here to enter text. |
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| 1. A logic Puzzle   There are 28 pennies lined up on a table. Starting at one end of the line, every second coin is replaced with a nickel. Going back to the beginning, every third coin is replaced with a dime. Finally, going back to the beginning one last time, every fourth coin is replaced with a quarter. How much money is now on the table? |
| Click or tap here to enter text. |

**Assignment Feedback**

Course Name: Computer Programming 12

Student Name: Click or tap here to enter text.

**Okie, I am done the assignment, what do I do now?**

* First step: SAVE AS and rename the file as the following:

***Introductory\_CP12-02\_LASTNAME\_Firstname.docx***

* Second step: Upload to ASSIGNMENTS in your VLN classroom.