**ICS3U-Problem Solving Assignment Name(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TI: /60**

**Problem**:

A person starts out with $100 and wants to play a game of dice. In it they roll two die and get the sum. If the sum equals 2 or 12 they win $100. If the sum is any other number besides 7 they lose $20. If its 7 they lose all their money. After each roll they want to see how much money they have left. If they have money left over they play another round. If they have no money left they are told that the game is over. Create the algorithm to solve this problem. Use all three tools. Once complete, upload this file with your solutions via the class website. Save the file using the format : **yourNamesAlgoAsgn.docx**. The assignment is due by the end of class. You will lose 2 marks for not naming the file properly. You cannot upload the file more than once. Only the first file submitted will be marked. You **lose** **0.5 marks** for each hour *after 4 pm* the file is uploaded. Display your algorithms in the correct order (-1 for each one that isn’t). Finally, write the code. You can test the code but only submit your final copy here (properly formatted).

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| Psudocode |
| Money is 100  Dice is 0  Sum is 0  Dice1 is 0  Dice 2 is 0  While money>0  Display money  Gerenate dice 1 from 1 to 6  Gerenate dice 2 from 1 to 6  Sum = dice1 + dice 2  If sum is 2 or 12  Money = money +100  else if sum is 7  Money = 0  else  money = money – 20  display money  display “game over” |

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