*Assignment 5 - 6*

*Instructor: Faisal Khan*

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| *Name* | *Student ID* | *Group#* |
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1-Use Documentation Comments where needed.

2-In your project src folder add this word document with all your group members names, having the screen shots of your output with source code after each question.

2-Right Click on your Project Folder in Eclipse, Copy Option is available. Create a copy of the Project and upload the zipped folder using Moodle.

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| **Assignment 5** | **10** |

Coin Toss Simulator

Write a class named Coin. The Coin class should have the following field:

• A String named sideUp. The sideUp field will hold either “heads” or “tails” indicating the side of the coin that is facing up.

The Coin class should have the following methods:

• A no-arg constructor that randomly determines the side of the coin that is facing up (“heads” or “tails”) and initializes the sideUp field accordingly.

• A void method named toss that simulates the tossing of the coin. When the toss method is called, it randomly determines the side of the coin that is facing up (“heads” or “tails”) and sets the sideUp field accordingly.

• A method named getSideUp that returns the value of the sideUp field.

Write a program that demonstrates the Coin class. The program should create an instance of the class and display the side that is initially facing up. Then, use a loop to toss the coin 20 times. Each time the coin is tossed, display the side that is facing up. The program should

keep count of the number of times heads is facing up and the number of times tails is facing up, and display those values after the loop finishes.

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| **Assignment 6** | **10** |

Write a program that asks the user to enter today’s sales for five stores. The program should

display a bar chart comparing each store’s sales. Create each bar in the bar chart by displaying

a row of asterisks. Each asterisk should represent $100 of sales. Here is an example of

the program’s output:

Enter today's sales for store 1: 1000 [Enter]

Enter today's sales for store 2: 1200 [Enter]

Enter today's sales for store 3: 1800 [Enter]

Enter today's sales for store 4: 800 [Enter]

Enter today's sales for store 5: 1900 [Enter]

SALES BAR CHART

Store 1: \*\*\*\*\*\*\*\*\*\*

Store 2: \*\*\*\*\*\*\*\*\*\*\*\*

Store 3: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Store 4: \*\*\*\*\*\*\*\*

Store 5: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*