CECS 174 – Assignment 5

Part A – If Statements –

Dice Game – Write a program that rolls two 6-sided dice. Use the Math.random() function to get the random numbers of the dice. Display the values of the two dice, compute and display their sum, and then use an if-statement to test if doubles were thrown.

Example Outputs:

```
Die 1: 6    Die 2: 6
Sum: 12
You threw doubles!

Die 1: 3    Die 2: 1
Sum: 4
```

Part B – If-Else Statements –

Three Card Monte – Write a program that plays Three Card Monte with the user. Ask the user to place a bet. Check to make sure that this value is positive, if it isn't, the game ends. Randomize a number between 1 and 3; this will be the location of the winning card. Draw three cards face down to the user and ask them to pick a card (assume a valid entry). After they choose, draw each of the cards face up to display their values. If they choose the same location as the winning card, they win and double their money, otherwise they lose.

Example Outputs:

Hey buddy, you want to play a game? How much money you got? *20*
20 eh? I guess that's enough. Let's play.

Try and find the queen.

```
-----     -----     -----
|   |     |   |     |   |
| 1 |     | 2 |     | 3 |
|   |     |   |     |   |
-----     -----     -----
```

Which card do you want? *2*

```
-----     -----     -----
|   |     |   |     |   |
| K |     | Q |     | K |
|   |     |   |     |   |
-----     -----     -----
```

Eh.. You just got lucky. Here's your money.

You receive $40.