**Unit 3 && 4: If/then Statements and While Loops**

**Overview**: Through this activity you will learn how to write while loops and also how to implement them. This activity will also include if/then statements and a little bit of the math class.

**Introduction**: An online casino has encountered a massive breach in their system. The hackers, who caused this phenomenon, deleted some of the casino's complex black jack algorithm. You, as the best coder alive, have been tasked to complete this code in exchange for deleting C++ forever. Follow the steps below and recover the casino’s code and make sure C++ never lives another day!

**Steps**:

Navigate your way to the Cards.java file

* The casino has encountered missing code for two of the methods in this file
* Follow the instructions and input the right statements

Next, go to the Dealer.java file

* Use your previous knowledge on Cards.java file and fix the code with valid statements

Next is the Player.java file

* Same issues have popped up here as the dealer java file
* Use your previous experience with the dealer file and fix this part of the code

Then, make your way to the Game.java file

* The casino has advised you that the cunning hackers have deleted the most in this file then the others combined!
* Follow the comments and recover these precious algorithms

Lastly, go to the Main.java file

* The casino has said to have lost their most precious, never-seen-before playback feature
* Help them recover this priceless algorithm and ban C++ from this world forever!