

Credit Name: CSE2140 2nd Language Programming

Assignment Name: Guessing Game Mastery

How has your program changed from planning to coding to now? Please explain?

I declared the variable type as integer as we are dealing with whole numbers.

```
//Declaration area  
int secretNum, userNum;
```

Prepared to import a random number and for user input.

```
//Preparing to import random number and for user input  
Random r = new Random();  
Scanner userInput = new Scanner(System.in);
```

Initialize the secretNum as an integer from 1 to 20.

```
//Initialize variable  
secretNum = r.nextInt(1,21);
```

Prompt user to input an integer from 1 to 20 and initialize it under the variable userNum.

```
//Prompt user to answer question and initialize variable  
System.out.print("Please enter a number between 1 and 20: ");  
userNum = userInput.nextInt();
```

Used a while loop to continue asking user for a number until they guess the secretNum correctly. Loop will continue while userNum is not equal to the secretNum. Write an error message if the userNum is less than 0 or greater than 20 and prompt user to input another number then continue above (check if userNum is between 1 and 20). Else print try again message and prompt user to input another number. Loop will break when the userNum is no longer not equal to the secretNum.

If the userNum is equal to the secretNum, display a congratulatory message.

```
//Continue looping until userNum is equal to the secretNum  
while (userNum != secretNum) {  
    if (userNum < 1 || userNum > 20) {  
        System.out.print("Invalid number, please try again."  
            + "\nPlease enter a number between 1 and 20: ");  
        userNum = userInput.nextInt();  
    }  
}
```

```

        continue;
    }
    else {
        System.out.print("Try again."
            + "\nPlease enter a number between 1 and 20: ");
        userNum = userInput.nextInt();
    }
}

if (userNum == secretNum) {
    System.out.print("You won!");
}

```