TASK 1 – NUMBER GAME

**package** javaintern;

**import** java.util.Random;

**import** java.util.Scanner;

**public** **class** NumberGame {

**public** **static** **void** main(String args[]) {

Scanner ip = **new** Scanner(System.***in***);

**boolean** playagain = **true**;

**int** totalAttempts = 0;

**int** roundsWon = 0;

**int** roundsPlayed = 0;

**while** (playagain) {

**int** usernum;

Random randomnum = **new** Random();

**int** randno = randomnum.nextInt(100) + 1;

**int** noofattempts = 0;

**int** maxattempts = 3;

**boolean** GuessedCorrectly = **false**;

System.***out***.println("A number is generated between 1 to 100");

**while** (noofattempts < maxattempts && !GuessedCorrectly) {

System.***out***.print("Enter your guess number: ");

usernum = ip.nextInt();

noofattempts++;

**if** (usernum == randno) {

GuessedCorrectly = **true**;

System.***out***.println("Congratulations! You guessed the number in " + noofattempts + " attempts.");

roundsWon++;

} **else** **if** (usernum < randno) {

System.***out***.println("Your guess is too low. Try again!");

} **else** {

System.***out***.println("Your guess is too high. Try again!");

}

}

roundsPlayed++;

totalAttempts += noofattempts;

**if** (!GuessedCorrectly) {

System.***out***.println("Sorry, you've used all " + maxattempts + " attempts. The number was: " + randno);

}

System.***out***.print("Do you want to play again? (yes/no): ");

String userResponse = ip.next();

playagain = userResponse.equalsIgnoreCase("yes");

}

System.***out***.println("Thank you for playing the Number Guessing Game!");

System.***out***.println("Total rounds played: " + roundsPlayed);

System.***out***.println("Total rounds won: " + roundsWon);

System.***out***.println("Total attempts: " + totalAttempts);

ip.close();

}

}