### **Object Oriented Programming**

Course Code: CS3CO23

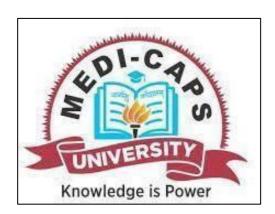
Mini project

BY

#### AKSHAY JILWANE MOHD SAMEER

**Topic:- Number guessing game** 

Submitted to **Mr. Arpit Deo** 

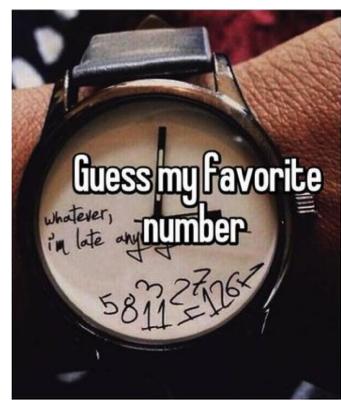


Department of Computer Science & Engineering
Faculty of Engineering
MEDI-CAPS UNIVERSITY, INDORE- 453331

## Number guessing

## game

- Pick a random number between 1 and 10
- Ask the user to guess a number
- Compare- verify that it is a number
- Output: You win or Try again (need a conditional loop)



#### Hints:

```
char someChar = int mylnt = atoi(&someChar);
```

int isdigit(int c); Parameters c This is the character to be checked. Return Value
This function returns nonzero value if c is a digit,

```
// Java program for the above approach
import java.util.Scanner;
public class GFG {
    // Function that implements the
    // number guessing game
    public static void
```

```
guessingNumberGame()
   // Scanner Class
    Scanner sc = new Scanner(System.in);
    // Generate the numbers
    int number = 1 + (int) (100)
                           * Math.random());
   // Given K trials
```

```
int K = 5;
int i, guess;
System.out.println(
    "A number is chosen"
   + " between 1 to 100."
   + "Guess the number"
   + " within 5 trials.");
// Iterate over K Trials
```

```
for (i = 0; i < K; i++) {
    System.out.println(
        "Guess the number:");
    // Take input for guessing
    guess = sc.nextInt();
    // If the number is guessed
    if (number == guess) {
```

```
System.out.println(
        "Congratulations!"
        + " You guessed the number.");
    break;
else if (number > guess
         && i != K - 1) {
    System.out.println(
        "The number is "
```

```
+ "greater than " + guess);
else if (number < guess</pre>
         && i != K - 1) {
    System.out.println(
        "The number is"
        + " less than " + guess);
```

```
if (i == K) {
    System.out.println(
        "You have exhausted"
        + " K trials.");
    System.out.println(
        "The number was " + number);
```

```
// Driver Code
public static void
main(String arg[])
    // Function Call
    guessingNumberGame();
```

# Example: A Game of Chance

- Craps simulator
- •Rules
  - Roll two dice
    - 7 or 11 on first throw, player wins

- 2, 3, or 12 on first throw, player loses
- 4, 5, 6, 8, 9, 10 value becomes player's "point" Player must roll his point before rolling 7 to win the user how much to bet on each throw
  - Verify that they enter a number