

# Exercise Module 2 (20483): *Guess the Number*

We want to make a program, which generates a secret random number, which the user has to guess. after every guess the output will show whether the secret number is higher or lower compared to the user input. Keep going till the user guesses the number correctly.

## Task 1: Flowchart

Try to draw a flow chart of the main flow of the program, starting with a initializing block, followed by a user input block, etc.

## Task 2: Generate Random Secret Number

Generate a random secret number using the following code:

```
Random rnd = new Random();  
int secret = rnd.Next(100);
```

This gives a random number from 0 to and including 99.

## Task 3: User input

Create a method to get the user input.

- What are the parameters needed and what is the return type?
- `Console.ReadLine()` provides you with a string, convert it to an int.
- Make sure the exceptions are handled when the user input is not a number and thus can't be converted to an integer.
- If you exception is caught, you want to ask the user a number again.

## Task 4: Compare the User Input with the Secret

Compare the two integers and let the user know, whether the secret number is higher or lower. When it is not correct, ask for a new input, etc, etc

## Task 5: Success

Congratulate the player when he guess the number correctly and let him know how many guesses he/she needed.