

# 1 Python: Homework 4

**How to do the homework?** Simply use Repl.it to write your code and copy the URL to the code project and submit it in the provided Google Form.

## 1.1 Random Number Generator

Generate a random integer from 1 to 15. The User gets 5 tries to guess the number.

If the user’s guess is 3 integers or less away from the number print “Your guess is very close!!!”.

Print the remaining number of tries the user has each time he guesses. The user wins if he guesses the number within 5 tries and loses otherwise.

A Winning Scenario:

```
Remaining tries: 5
Enter your guess : 10

Remaining tries: 4
Enter your guess : 3

Your guess is very close!!!

Remaining tries: 3
Enter your guess : 1

You win!!
```

A Losing Scenario:

```
Remaining tries: 5
Enter your guess : 10

Remaining tries: 4
Enter your guess : 2

Remaining tries: 3
Enter your guess : 7

Remaining tries: 2
Enter your guess : 11

Your guess is very close!!!

Remaining tries: 1
Enter your guess : 15

You lost. The number was 14
```

You can experiment with it by making the game easier/harder by increasing/decreasing the range and number of tries. You can also give more personalized feedback. For ex: If the user’s guess is more than 6 integers away you can print “Your guess is far off”.