

PROGRAMMING EXERCISE 3

1. Write a program that allows a user to guess a random number between 1 and 100. Respond with 'Higher' if the guess is too low, and 'Lower' if the guess is too high, and 'Correct guess' if the guess is correct. The program should keep asking the user to guess the number until the correct guess is made.

Use the `randint()` function from the `random` library to generate the random number:

```
from random import randint
guess=randint(1,100) #assign a random number to guess
```

Evidence 1: Your program code

Evidence 2: Screenshot of running the program showing all **three** possible responses

2. Amend your program to follow these specifications:
 - user to input smallest and largest number to be guessed
 - user to indicate the number of tries allowed
 - prompt user with the number of tries remaining
 - if user did not guess correctly after the given number of tries, display correct number on screen

Evidence 3: Your amended program code

Evidence 4: **Two** screenshots (one successful and one unsuccessful) of running program with following user input:

- smallest number: 30
- largest number: 40
- number of tries allowed: 3