REPORT FOR GUESSING GAME

As a project work for Course

PYTHON PROGRAMMING (INT 213)

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Program : B.Tech CSE

Semester : Third

School : School of Computer Science and Engineering

Name of the University : Lovely Professional University

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Lovely Professional University
Jalandhar, Punjab, India.

GUESSING GAME

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ABSTRACT:-

This is a guessing game designed by using python, in this game you give two numbers of upper bound and lower bound respectively then the system will generate a random number and based on the difference of the lower and upper bounds you will be given a certain amount of chances and within the chances if you guessed the number correctly then it will print congratulations you have guessed the number correctly and if you failed to guess the number within the given amount of chances it will print the correct answer automatically.

ACKNOWLEDGEMENT:-

I would like to thank my mentor –Prof. Md. Imran Hussain for his advice and inputs on this project. Many thanks to my friends and seniors as well, who spent countless hours to listen and provide feedbacks.

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INTRODUCTION:-

1.1 Context

This project has been done as part of my course for the CSE at Lovely Professional University. Supervised by Md. Imran Hussian, I had a month time to fulfill the requirements in order to succeed the module.

1.2 Motivations

Being extremely interested in everything having a relation with the Python the group project was a great occasion to give us the time to learn our interest for this field. The fact that we can make predictions and give the ability for machines to generate a number is both efficient and limitless in term of application possibilities.

1.3 Idea:-

As a first experience, we wanted to make our project as much didactic as possible by approaching every different steps of the python programming process and trying to understand them deeply. Known as “guessing game” which is useful to illustrate and practice, we chose to take number guessing game as approach. The goal was to predict the random number generated by the computer and taking into account different “features” that will be developed in the following .

TEAM MEMBERS:-

TEAM LEADER:-

Varun Kumar:-

Contributions:-

1. Coding(joined)
2. Report

Sai Kalyan:-

Contributions:-

1. Coding(joined)
2. Report(joined)

LIBRARIES:-

Random:-

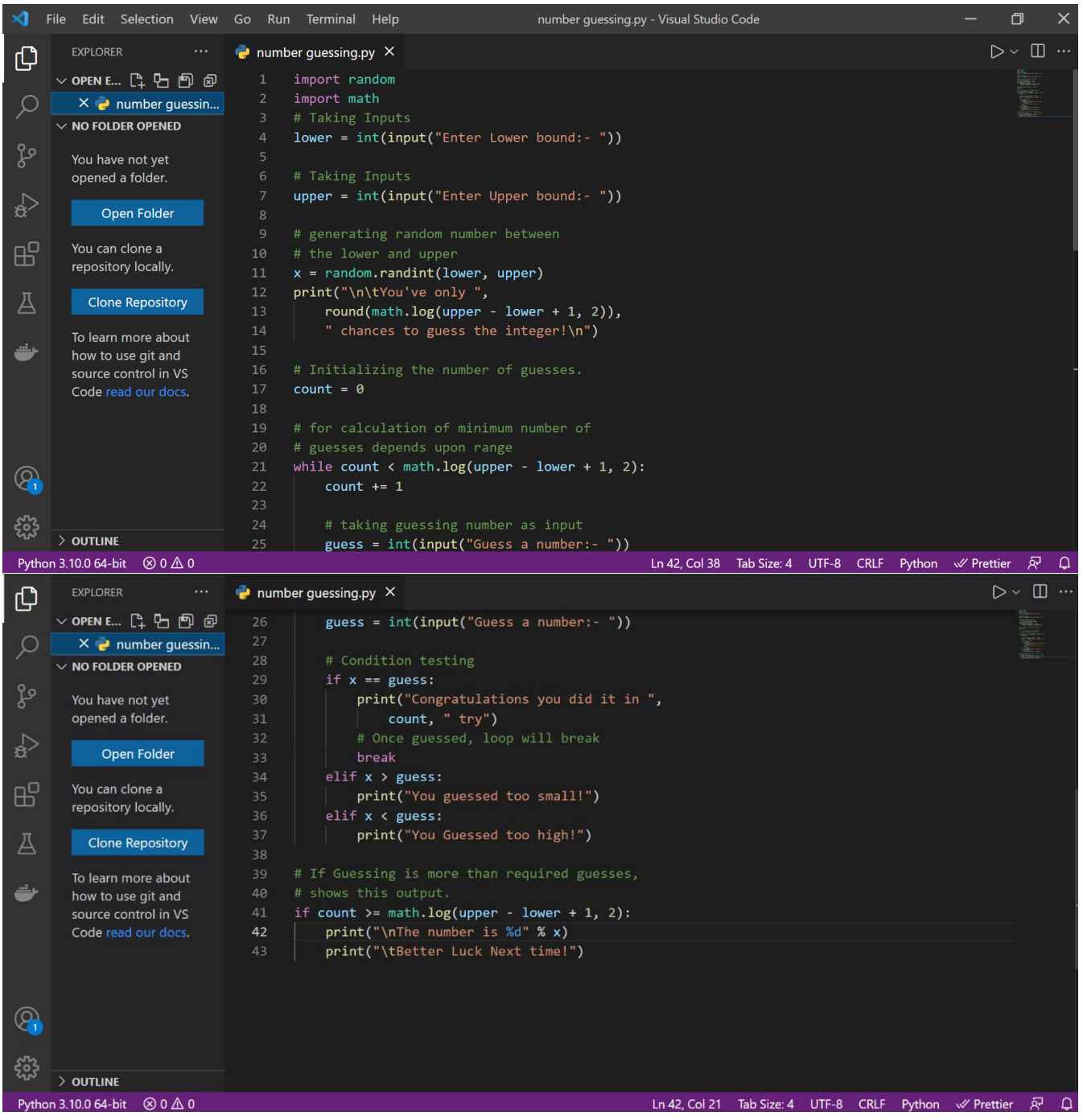
Python Random module is an in-built module of Python which is **used to generate random numbers**. These are pseudo-random numbers means these are not truly random. This module can be used to perform random actions such as generating random numbers, print random a value for a list or string, etc.

Math:-

The Python Math Library provides us access to some common math functions and constants in Python, which we can use throughout our code for more complex mathematical computations. The library is a built-in Python module, therefore you don't have to do any installation to use it.

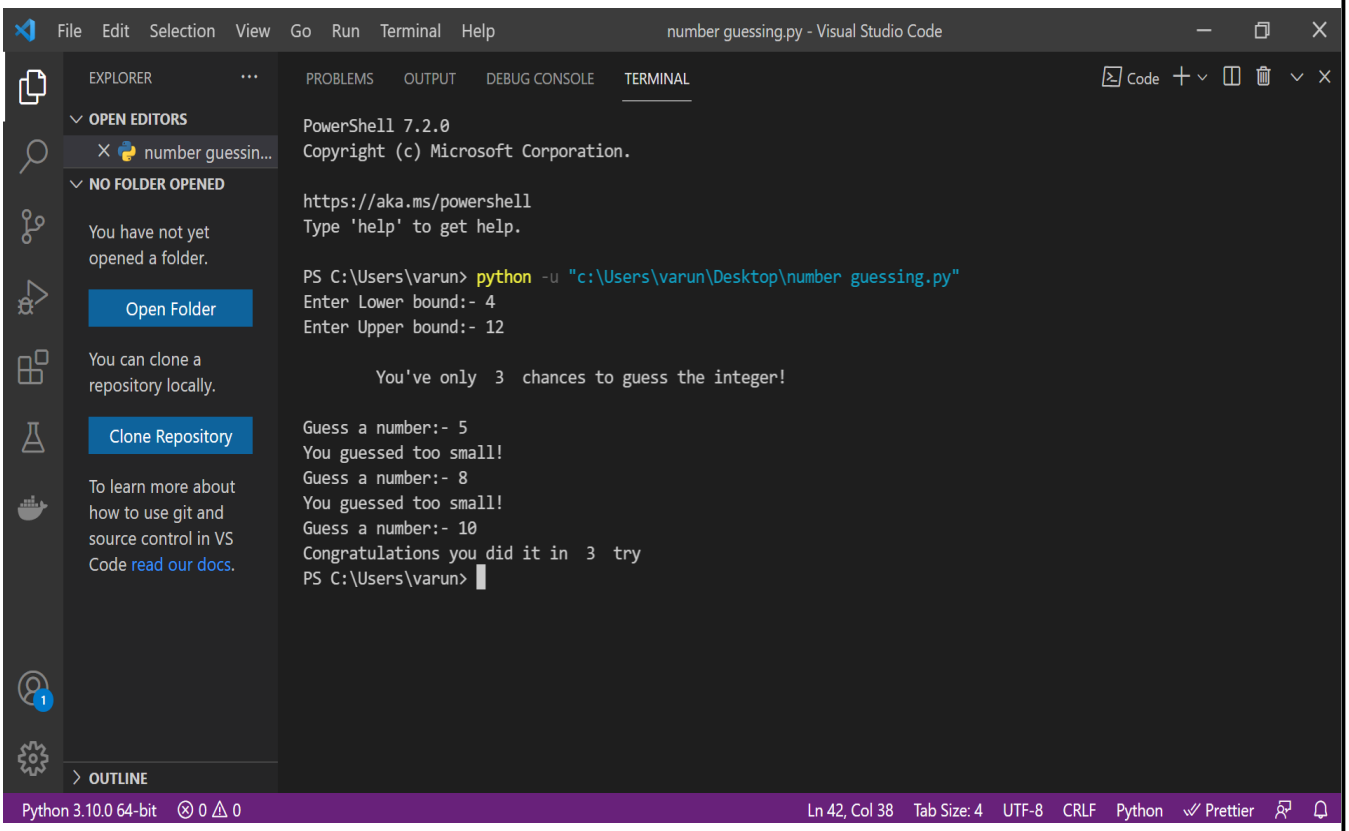
SCREENSHOTS:-

1.Code:-

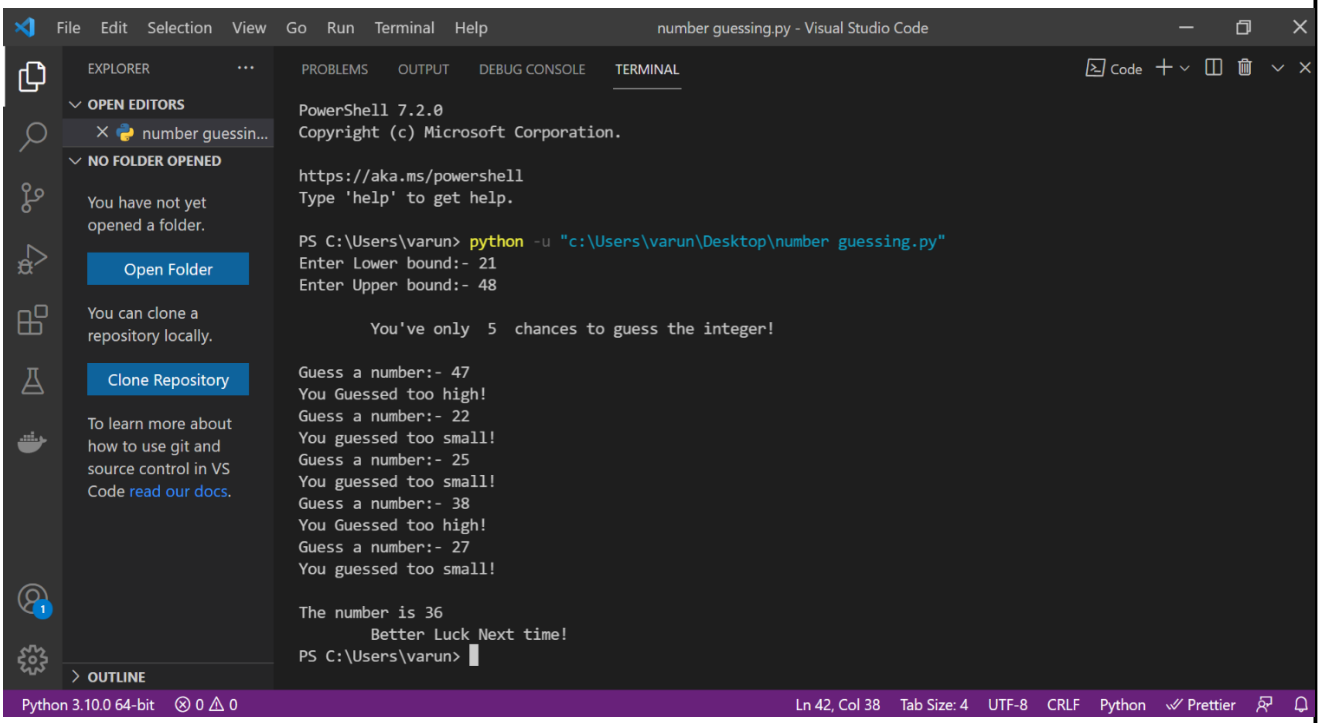


2.Examples:-

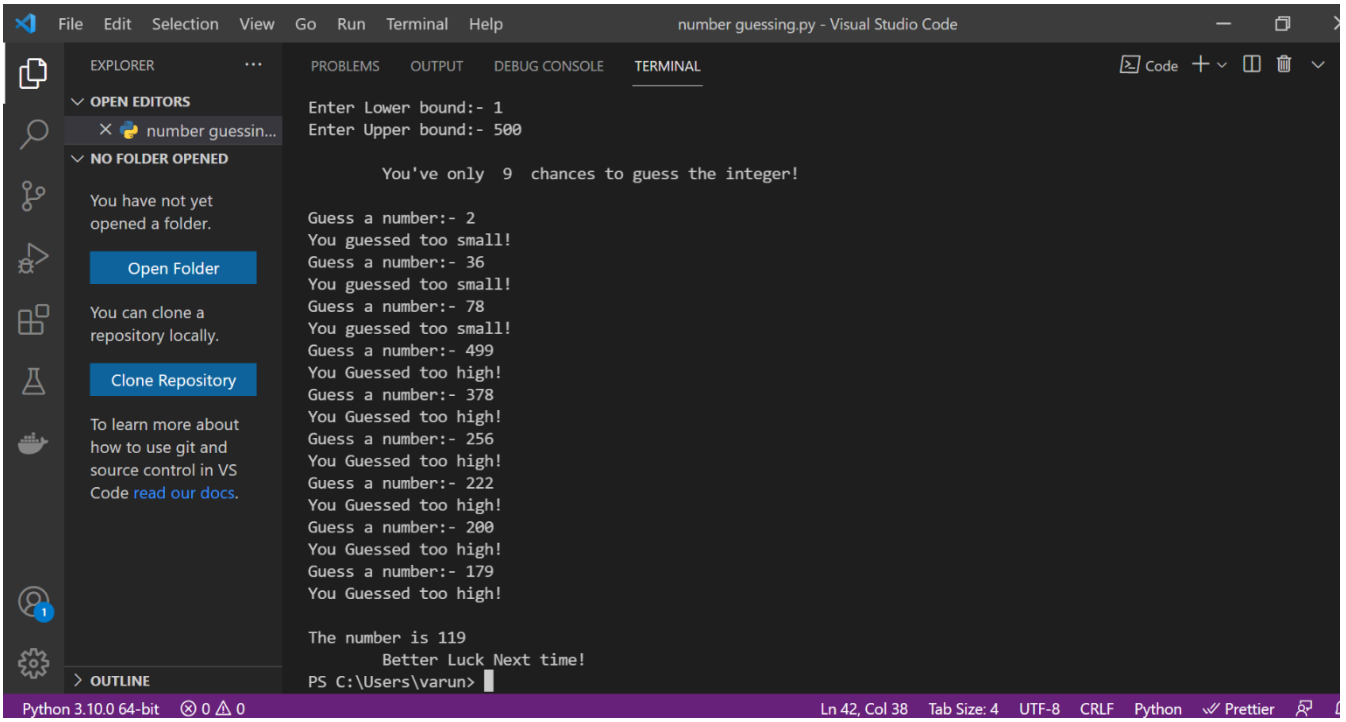
1.



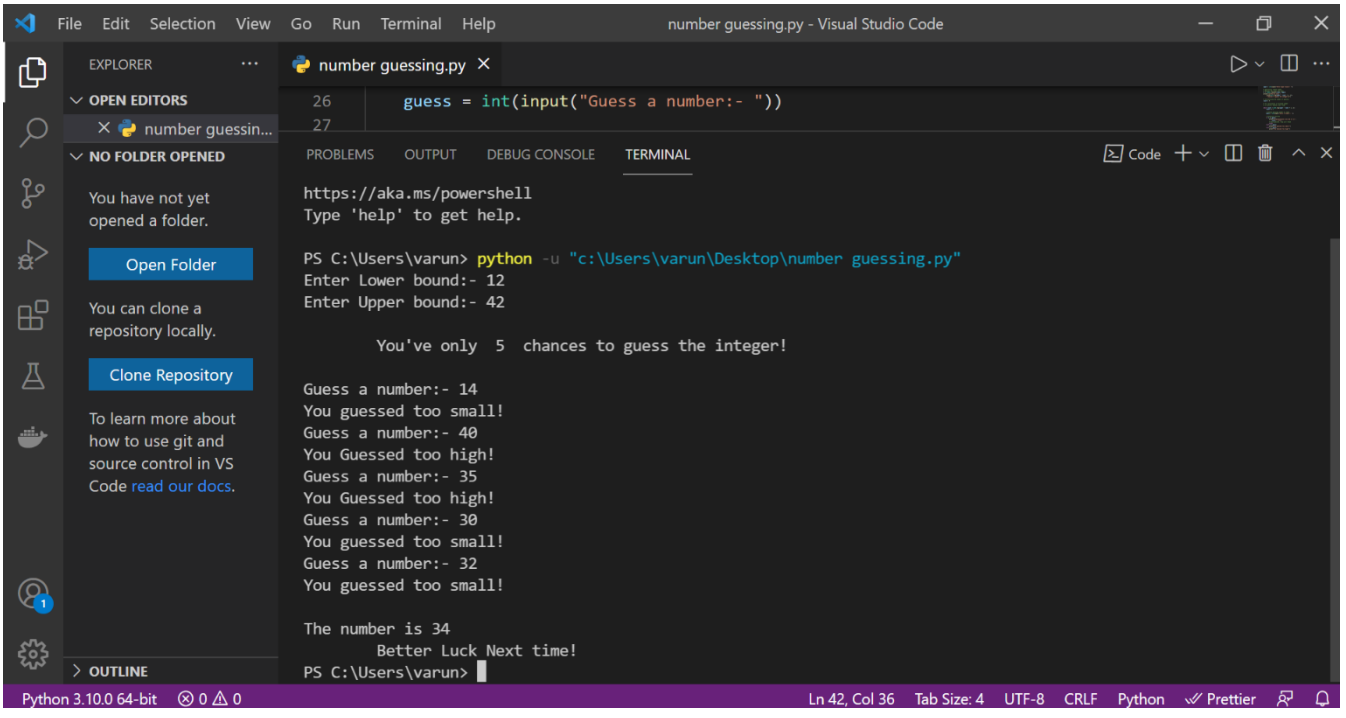
2.



3.


File Edit Selection View Go Run Terminal Help
number guessing.py - Visual Studio Code
EXPLORER
OPEN EDITORS
number guessin...
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
You can clone a repository locally.
Clone Repository
To learn more about how to use git and source control in VS Code read our docs.
OUTLINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter Lower bound:- 1
Enter Upper bound:- 500
You've only 9 chances to guess the integer!
Guess a number:- 2
You guessed too small!
Guess a number:- 36
You guessed too small!
Guess a number:- 78
You guessed too small!
Guess a number:- 499
You Guessed too high!
Guess a number:- 378
You Guessed too high!
Guess a number:- 256
You Guessed too high!
Guess a number:- 222
You Guessed too high!
Guess a number:- 200
You Guessed too high!
Guess a number:- 179
You Guessed too high!
The number is 119
Better Luck Next time!
PS C:\Users\varun>
Python 3.10.0 64-bit
Ln 42, Col 38 Tab Size: 4 UTF-8 CRLF Python Prettier

4.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OUTLINE
26 guess = int(input("Guess a number:- "))
27
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
https://aka.ms/powershell
Type 'help' to get help.
PS C:\Users\varun> python -u "c:\Users\varun\Desktop\number guessing.py"
Enter Lower bound:- 12
Enter Upper bound:- 42
You've only 5 chances to guess the integer!
Guess a number:- 14
You guessed too small!
Guess a number:- 40
You Guessed too high!
Guess a number:- 35
You Guessed too high!
Guess a number:- 30
You guessed too small!
Guess a number:- 32
You guessed too small!
The number is 34
Better Luck Next time!
PS C:\Users\varun>
Python 3.10.0 64-bit
Ln 42, Col 36 Tab Size: 4 UTF-8 CRLF Python Prettier

Conclusions:-

It is our team's hope that this document will be of huge help with understanding of our little project as we have used a different approach which has proved beneficial for us and easy for us to understand the vast ocean that is Python programming.

REFRENCES:-

To conduct this project the following tools have been used :

- Visual Studio, Google Collab (For testing the code)
- https://docs.python.org/3/library/math.html
- https://docs.python.org/3/library/random.html