

Lab 6 objective:

1. Create a number Game
 - a. Use RANDOM to select a number
 - b. Use INPUT to get number from the user
 - i. You will have to convert the input to an INTEGER
 - c. Use IF statements for >, < =
 - d. Write to a file the answers (sort of a logging process)

Lab Time:

Due June 19, 2023 11:59pm

Late submission will result in loss of grade.

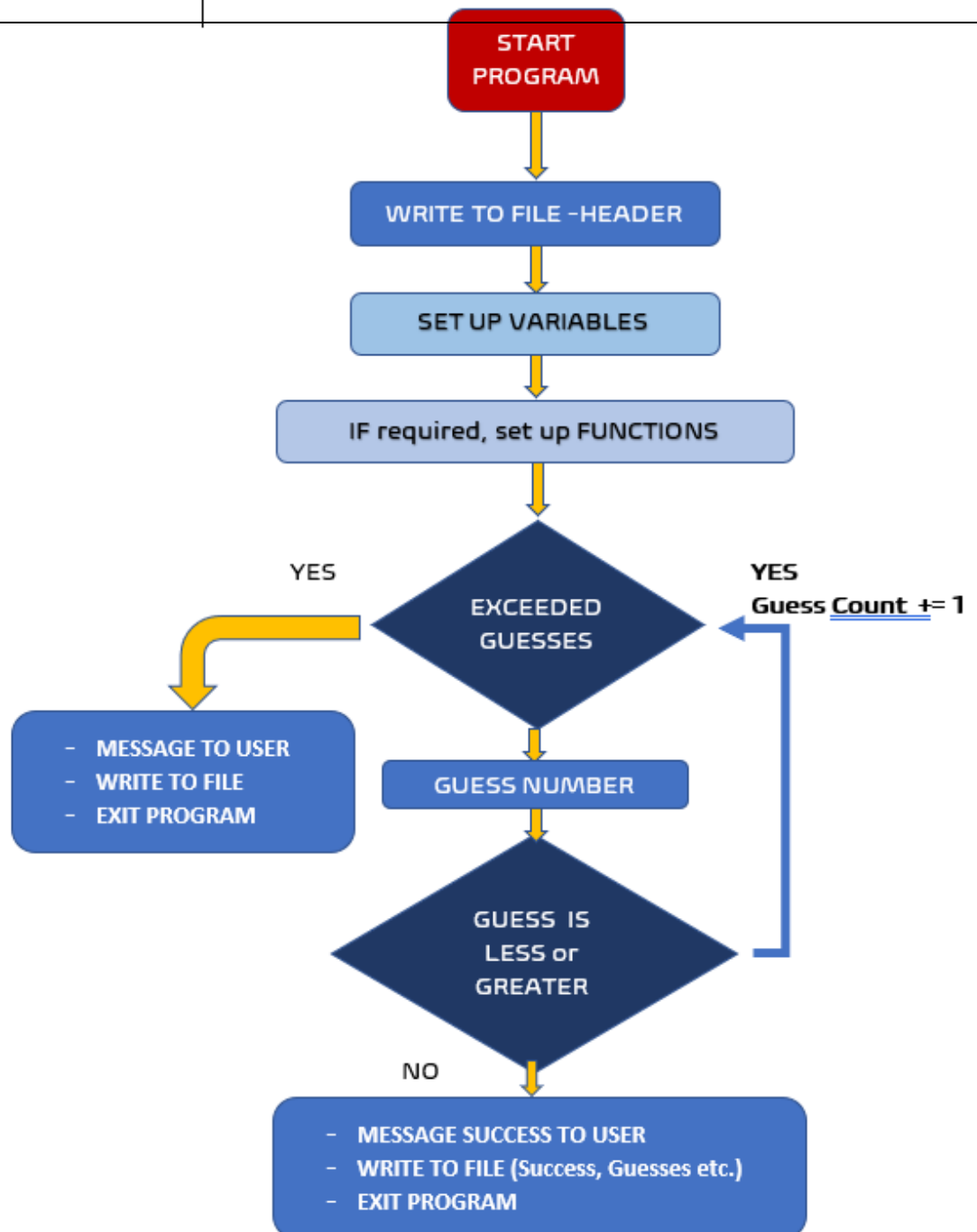
Lab Scoring:

LAB 6		
1	Set up variable for RANDOM Number between 1 and 100	1
2	Set Variable for the number of times to guess (max 10 times??)	1
	Use Try, except to handle invalid entries from the user	3
	Write header information to the file	3
	Set up a FILE for WRITING	2
	Get data from user (guess the number) - Make sure informative info for users	2
	Using IF statements, check the number against the RANDOM number	5
	Message back to user their success Write the answer to the file	3
	Total	20

LAB 6 Notes

- If writing to a file use concatenation
 - o E.g. `f.writelines("Number " + str(intX))`
- For writing you must convert the number to a string
- Use `"\n"` to add a newline break
- Use `"\t"` to enter a tab in the line
- Use `break` to exit it statements

FLOW CHART



LAB 6 instructions

- 1 Download the python template
 - i. [INFO6079_F2022_LAB06_template.py](#)
 - ii. Rename to (your initials)_F2022_Lab06.py e.g hbh_F2022_Lab06.py
 - iii. Add your header to the file (name, StuID etc.)
 - iv. Answer questions re **SOCKETS** in the template
 - v. Write to the file with your header information
 1. Use e.g. with `open(file, "w")` as fw:
`Fw.writelines(data)`
 - vi. Using While loop and Try Except

```
while True:
    Try:
        Code
    Except:
        Catch any errors in data submission
```
- 2 Using **Import RANDOM** module
 - i. Create a variable and set it to a RANDOM number
 - ii. Use **`random.randint(x, y)`**
 1. X = starting number
 2. Y = end number
- 3 Implement **`try` and `except`** in your checking user input

- 4 check if exceeded the number of guess times
 - i. **if exceeded then**
 1. print out end message to user exceeded # guesses
 2. print out Random number
 3. write these answers to the output file created
 4. exit the program
 - ii. **otherwise**
 1. ask for new number
 2. check if against RANDOM number
 - a. **if Equivalent to the RANDOM number**
 - i. message to user
 - ii. write to answer to file
 - iii. exit program
 - b. **if Greater than number**
 - i. message to user
 - ii. write answer to file
 - iii. ask for a new number (or loop)
 - iv. increment guess count by 1
 - c. **if Less than number**
 - i. message to user
 - ii. write answer to file
 - iii. ask for a new number (or loop)
 - iv. increment guess count by 1

RUN CODE AS MANY TIMES AS REQUIRED TO MAKE SURE IT WORKS

- SUBMIT completed .py file to Submission box
- Don't forget the answer question (re SOCKETS)