## Software Engineering Lab Task 2

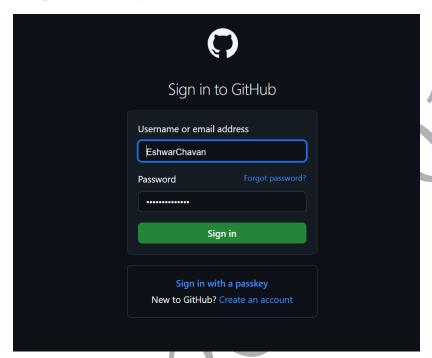
4-12-2024

Eshwar Deshmukh Chavan

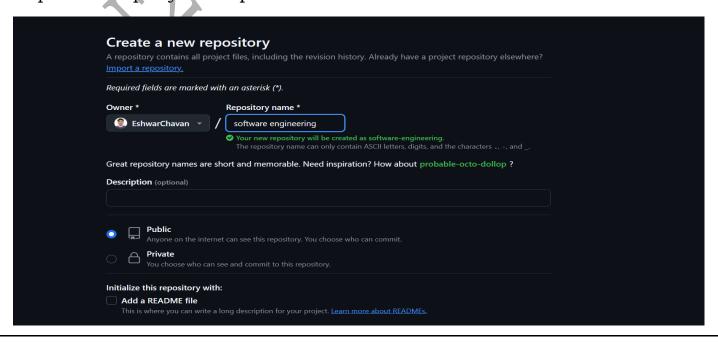
HU22CSEN0100999

write any program is goggle colab using hard coding variables, keyboard input, read from a file single input and read from a file multiple set of inputs and save all the versions, debug and fix any errors, push all the versions into your git hub account.

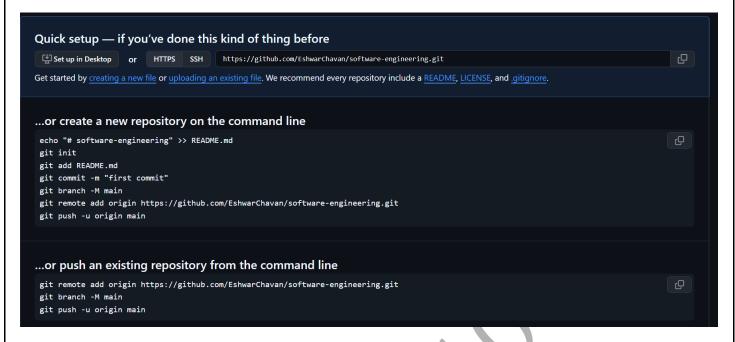
Step 1: Go to your GitHub account.



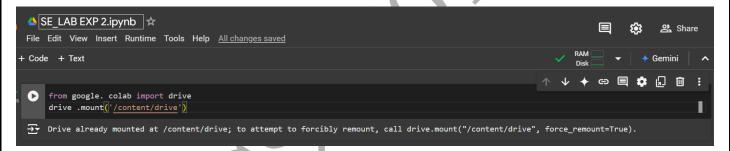
Step 2: Create a new repository. Give the repository a name, Make it public or private as per your requirement and Do not initialize with a README file.



Step 3: Copy the repository URL



Step 4: Connect Google Colab to Google Drive and create a new notebook and mount your Google Drive.



### Steps:

## 1. Hardcoding Variables:

- Demonstrates the use of predefined values.
- Shows basic variable assignment and printing.

```
# Hardcoding Variables

a = 1

b = 2

print(f"Hardcoded values: a = {a}, b = {b}")

Hardcoded values: a = 1, b = 2
```

## 2. Keyboard Input:

- Utilizes Python's input() function to accept user data.
- Converts input to the appropriate data type (e.g., integer).

```
# Keyboard Input
name = input("Enter your name: ")
age = int(input("Enter your age: "))
print(f"Name: {name}, Age: {age}")

Enter your name: Eshwar Deshmukh Chavan
Enter your age: 19
Name: Eshwar Deshmukh Chavan, Age: 19
```

### 3. Read From File (Single Input):

- Reads a single input from a file.
- Handles file not found errors using try-except.

```
# Read From File (Single Input)
file_path = '/content/drive/MyDrive/SE_LAB/single_input.txt'

try:
    with open(file_path, 'r') as file:
        single_input = file.read()
        print(f"Single input from file: {single_input}")
except FileNotFoundError:
    print(f"Error: The file {file_path} does not exist.")

Single input from file: Name: Eshwar Deshmukh Chavan
```

## 4. Read From File (Multiple Inputs):

- Reads multiple inputs from a file.
- Processes each line of the file.
- · Handles file not found errors using try-except.

```
# Read From File (Multiple Inputs)
file_path = '/content/drive/MyDrive/SE_LAB/multiple_inputs.txt'

try:
    with open(file_path, 'r') as file:
        multiple_inputs = file.readlines()
        for line in multiple_inputs:
            print(f"Input from file: {line.strip()}")
except FileNotFoundError:
    print(f"Error: The file {file_path} does not exist.")

Tinput from file: Software Engineering Lab Task 2
    Input from file: Name: Eshwar Deshmukh Chavan
    Input from file: Roll no: HU22CSEN0100999
    Input from file: course: Software engineering
    Input from file: lab task 4-12-2024
```

#### 5. Save All Versions:

- Each version of the program is saved in different cells.
- Ensures clarity and separation of different tasks.

### 6. Debug and Fix Errors:

- Includes error handling for missing files.
- Ensures robustness by catching and reporting errors.

```
# Define the file path
file_path = 'single_input.txt'

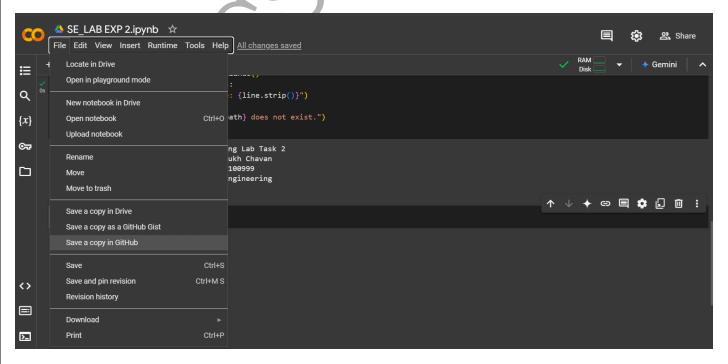
# Try to read the content from the file
try:
    with open(file_path, 'r') as file:
        content = file.read().strip()
        print(f"Content from file: {content}")
except FileNotFoundError:
    print(f"Error: The file {file_path} does not exist.")
except Exception as e:
    print(f"An error occurred: {e}")

Error: The file single_input.txt does not exist.
```

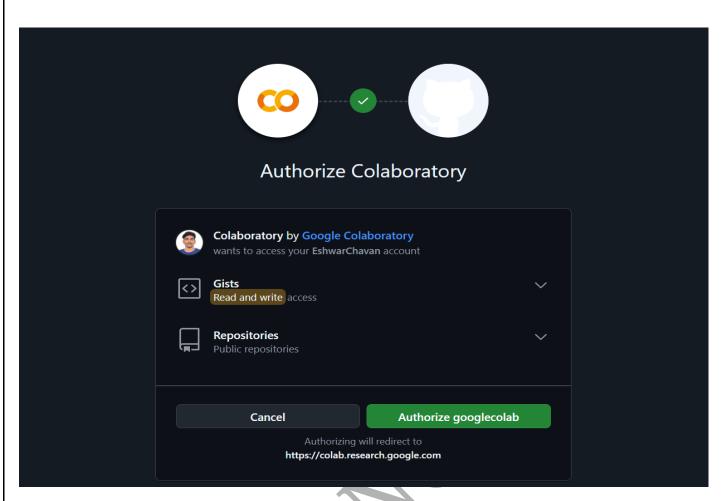
#### 7. Push Versions to GitHub:

- Uses git commands within Colab to push changes.
- Ensures version control and collaboration.

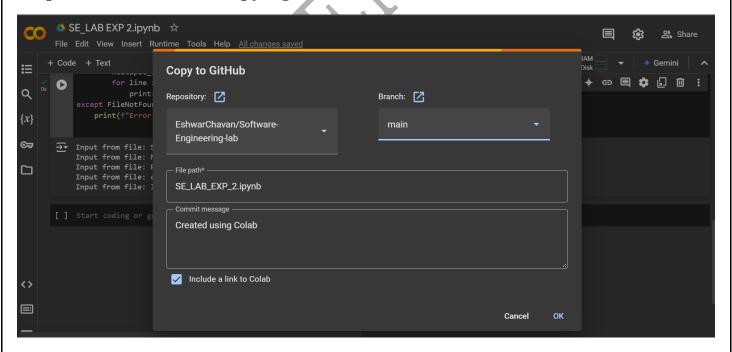
Step 1: Click on file and select option save a copy in GitHub



Step 2: Authorize Colaboratory



Step 3:Click on ok for copying to GitHub



# Step 4: Pushed into GitHub

