

## Software Engineering Lab Task 2

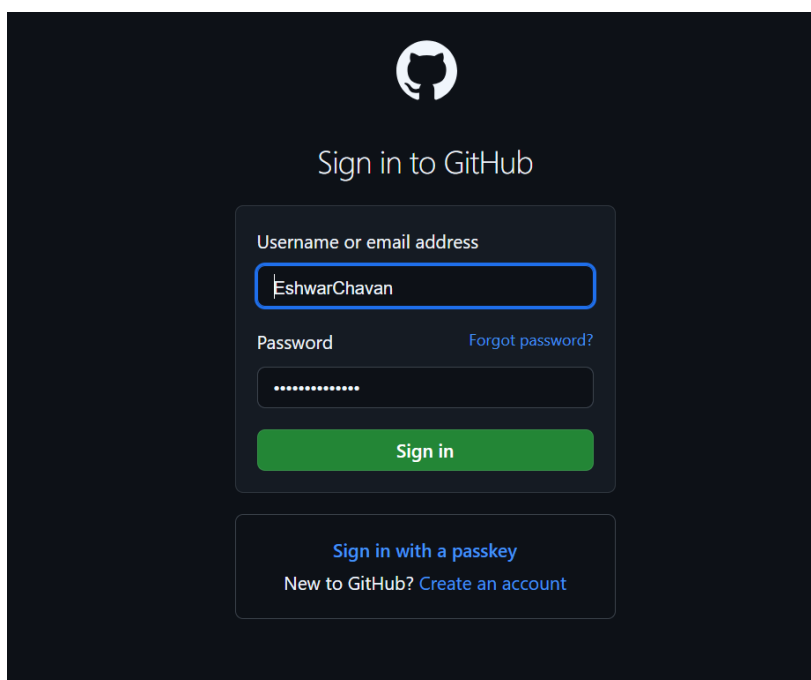
4-12-2024

Eshwar Deshmukh Chavan

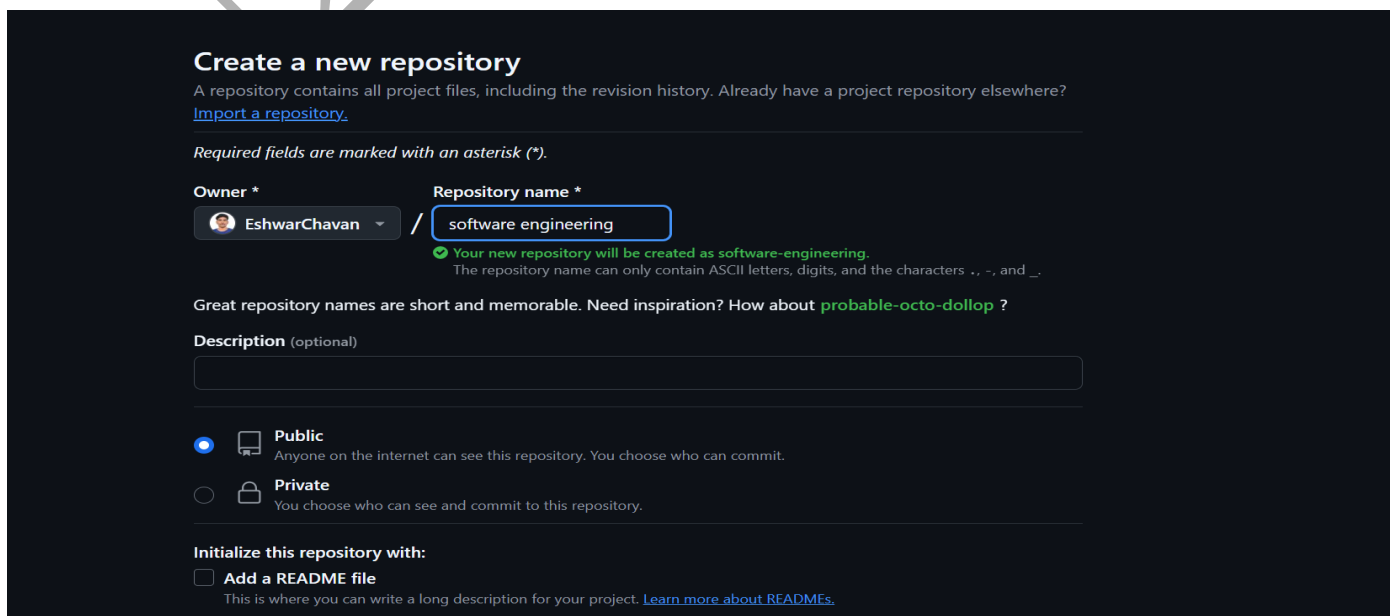
HU22CSEN0100999

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

**Quick setup — if you've done this kind of thing before**

Set up in Desktop or HTTPS SSH `https://github.com/EshwarChavan/software-engineering.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# software-engineering" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/EshwarChavan/software-engineering.git
git push -u origin main
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/EshwarChavan/software-engineering.git
git branch -M main
git push -u origin main
```

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

SE\_LAB EXP 2.ipynb ☆

File Edit View Insert Runtime Tools Help [All changes saved](#)

+ Code + Text

✓ RAM  
Disk

Gemini

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```
from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

## Step 5: upload the required files in Google Drive , so that we can use later

My Drive > SE\_LAB ▾ 

✓ ☰ ⓘ

Type ▾ People ▾ Modified ▾

Name	Owner	Last mo...	File size	
multiple_inputs.txt	me	6:31 PM	142 bytes	⋮
SE_LAB EXP 2.ipynb	me	8:46 PM	5 KB	⋮
single_input.txt	me	8:29 PM	33 bytes	⋮

## 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.")

```

```

Input 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}")

```

```

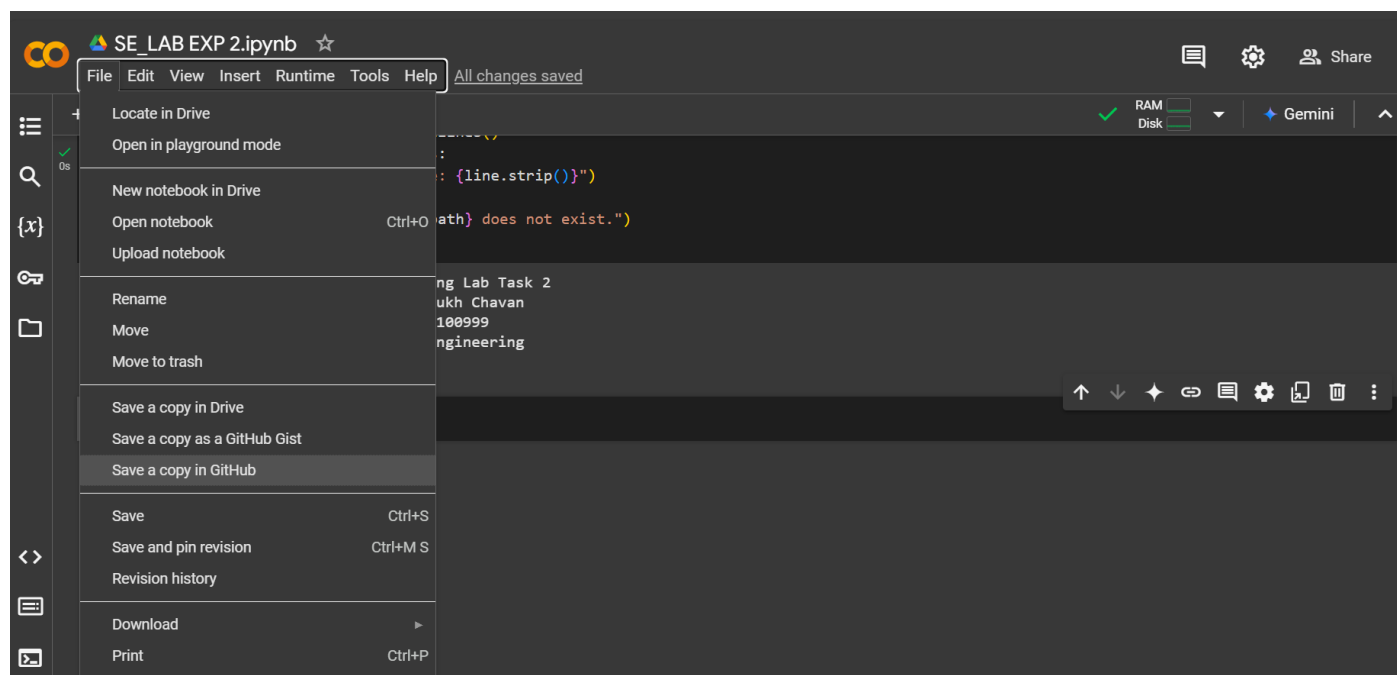
Error: The file single_input.txt does not exist.

```

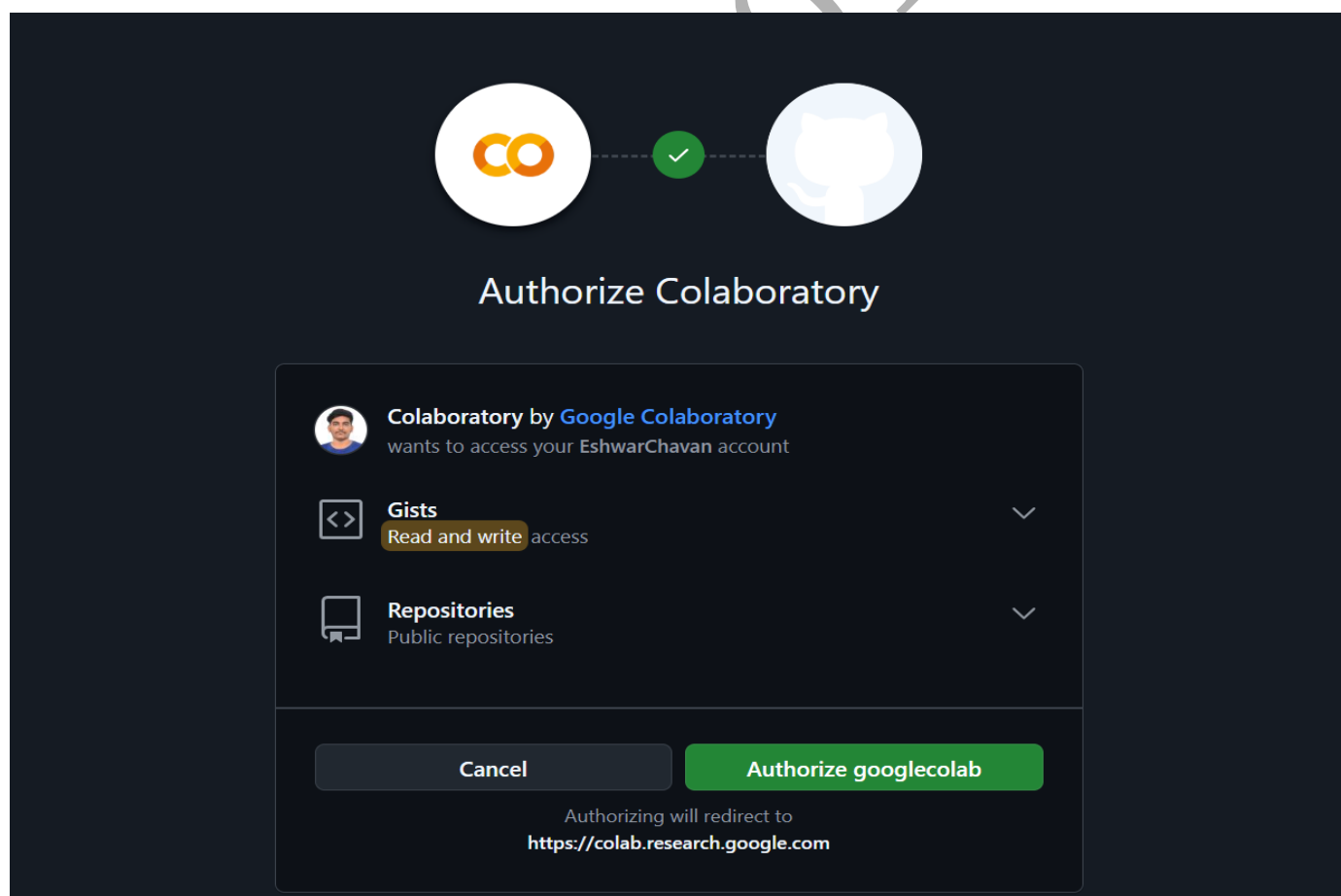
## 7. Push Versions to GitHub:

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

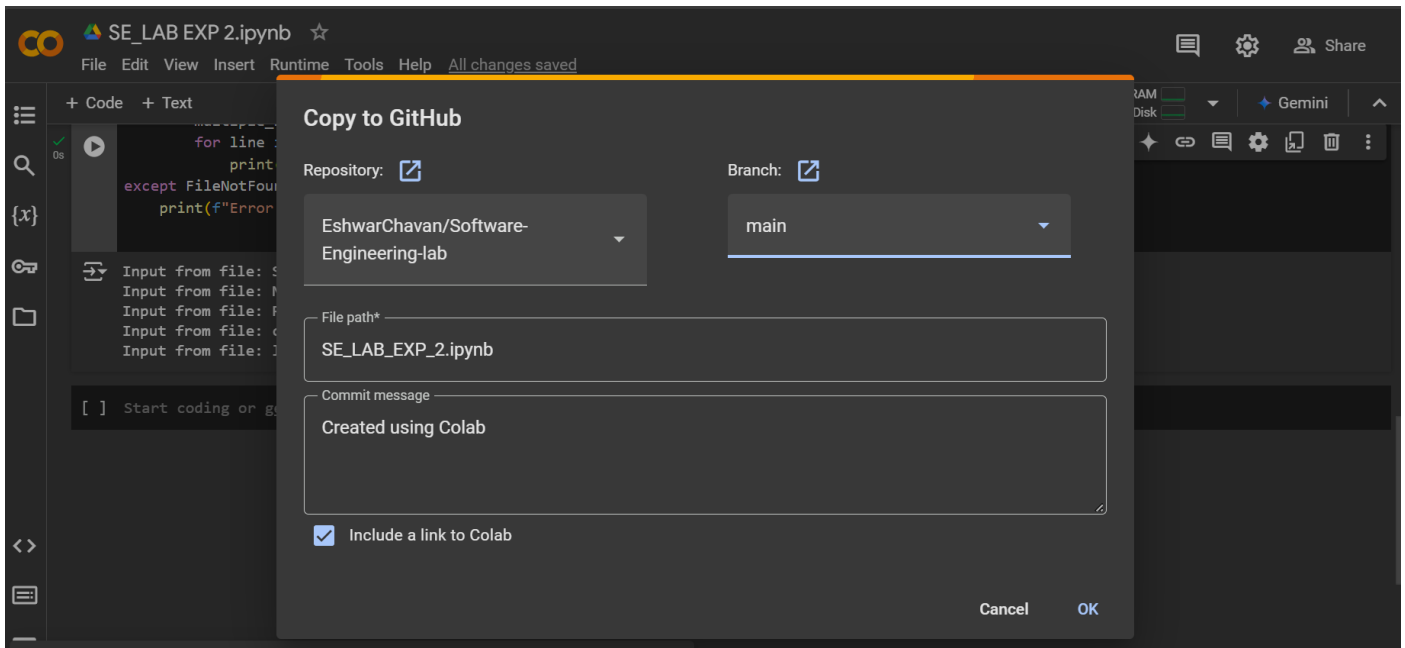
## Step 1: Click on file and select option save a copy in GitHub



## Step 2: Authorize Colaboratory



### Step 3: Click on ok for copying to GitHub



### Step 4: Pushed into GitHub

