

Software Engineering Lab Task 2

4-12-2024

Eshwar Deshmukh Chavan

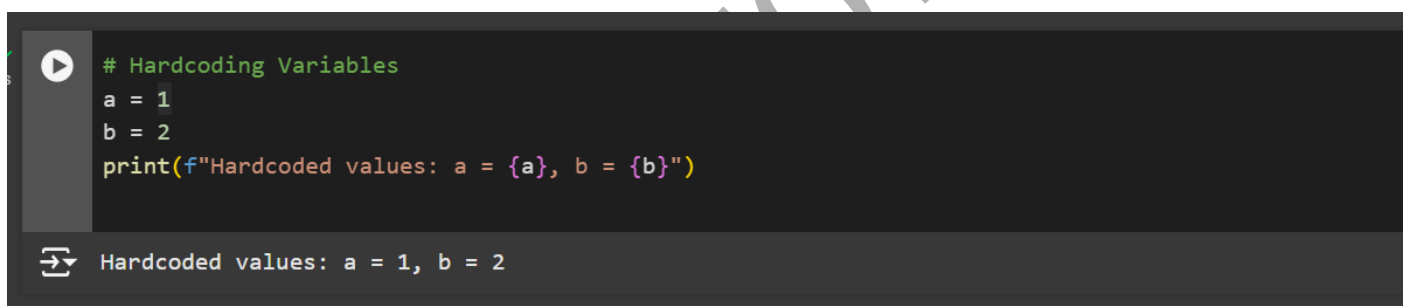
HU22CSEN0100999

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.

Steps:

1. Hardcoding Variables:

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

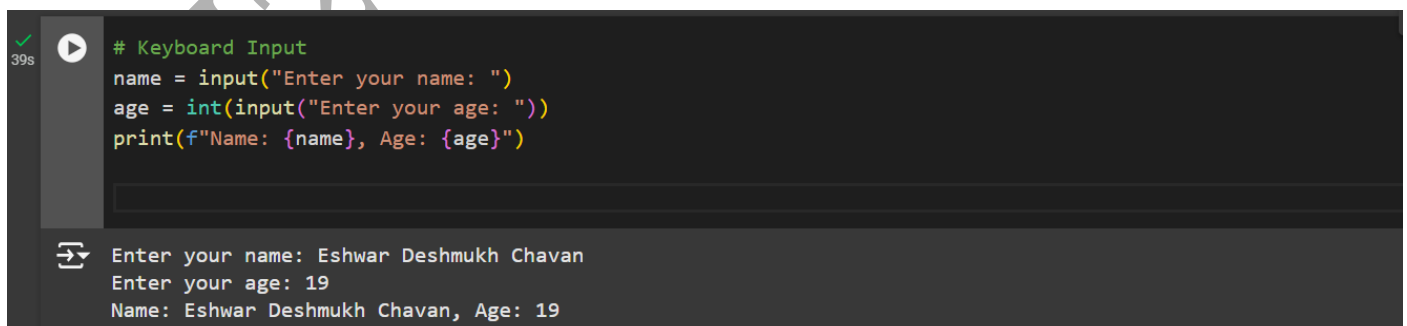


```
# Hardcoding Variables
a = 1
b = 2
print(f"Hardcoded values: a = {a}, b = {b}")
```

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).

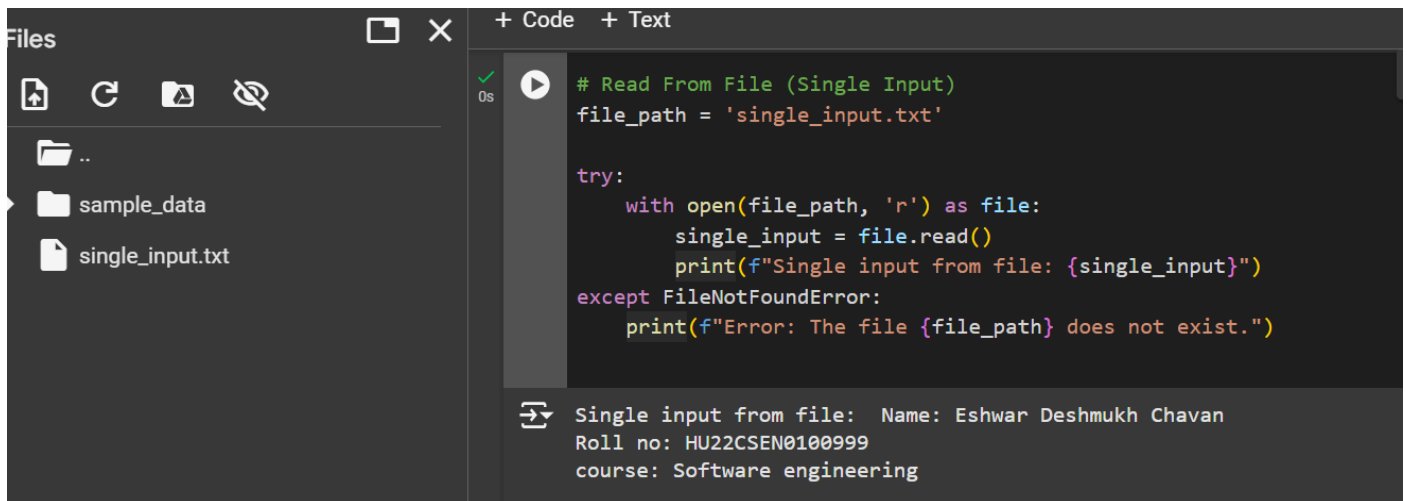


```
# Keyboard Input
name = input("Enter your name: ")
age = int(input("Enter your age: "))
print(f"Name: {name}, Age: {age}")
```

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.



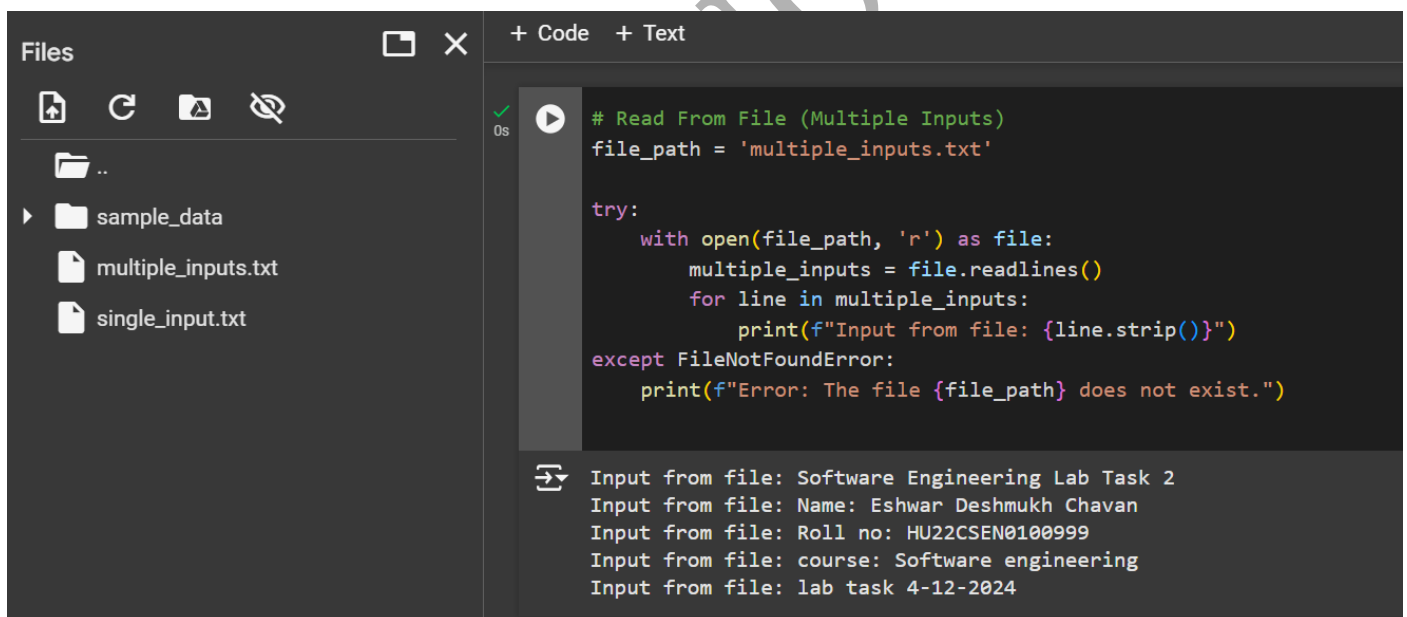
```
# Read From File (Single Input)
file_path = 'single_input.txt'

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
Roll no: HU22CSEN0100999
course: Software engineering

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 = '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.

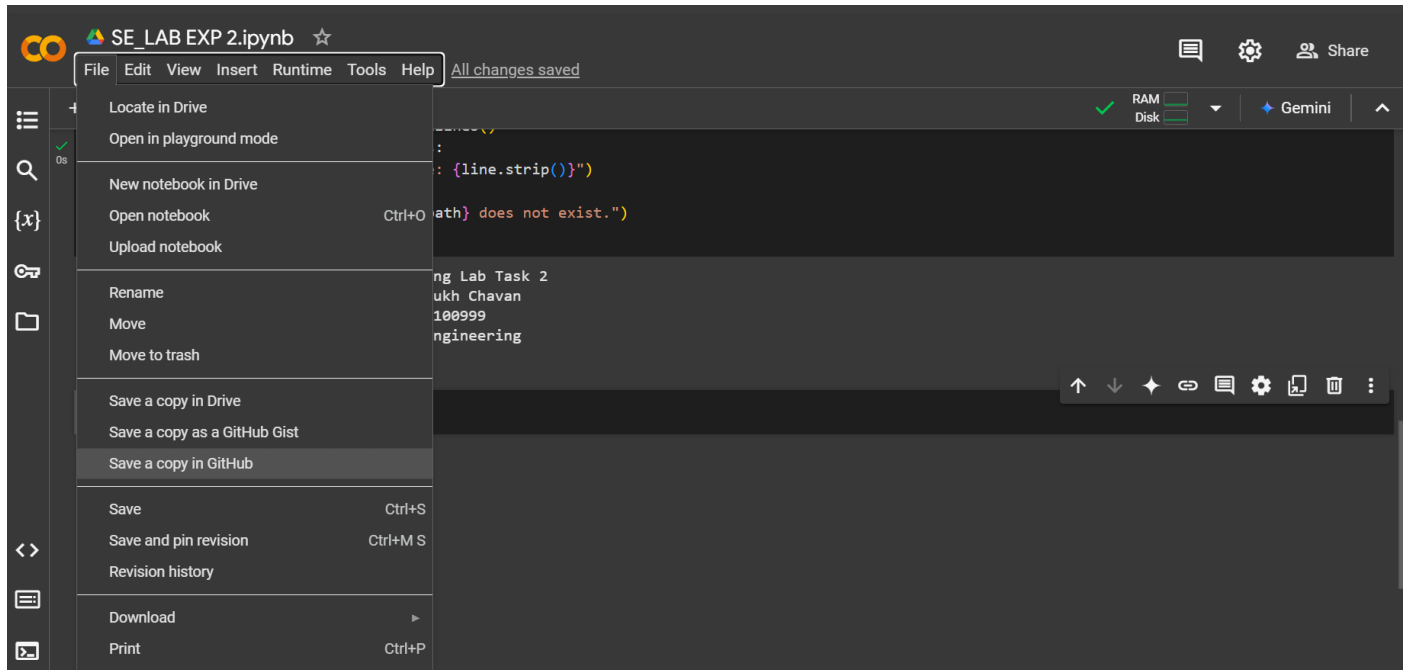
6. Debug and Fix Errors:

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

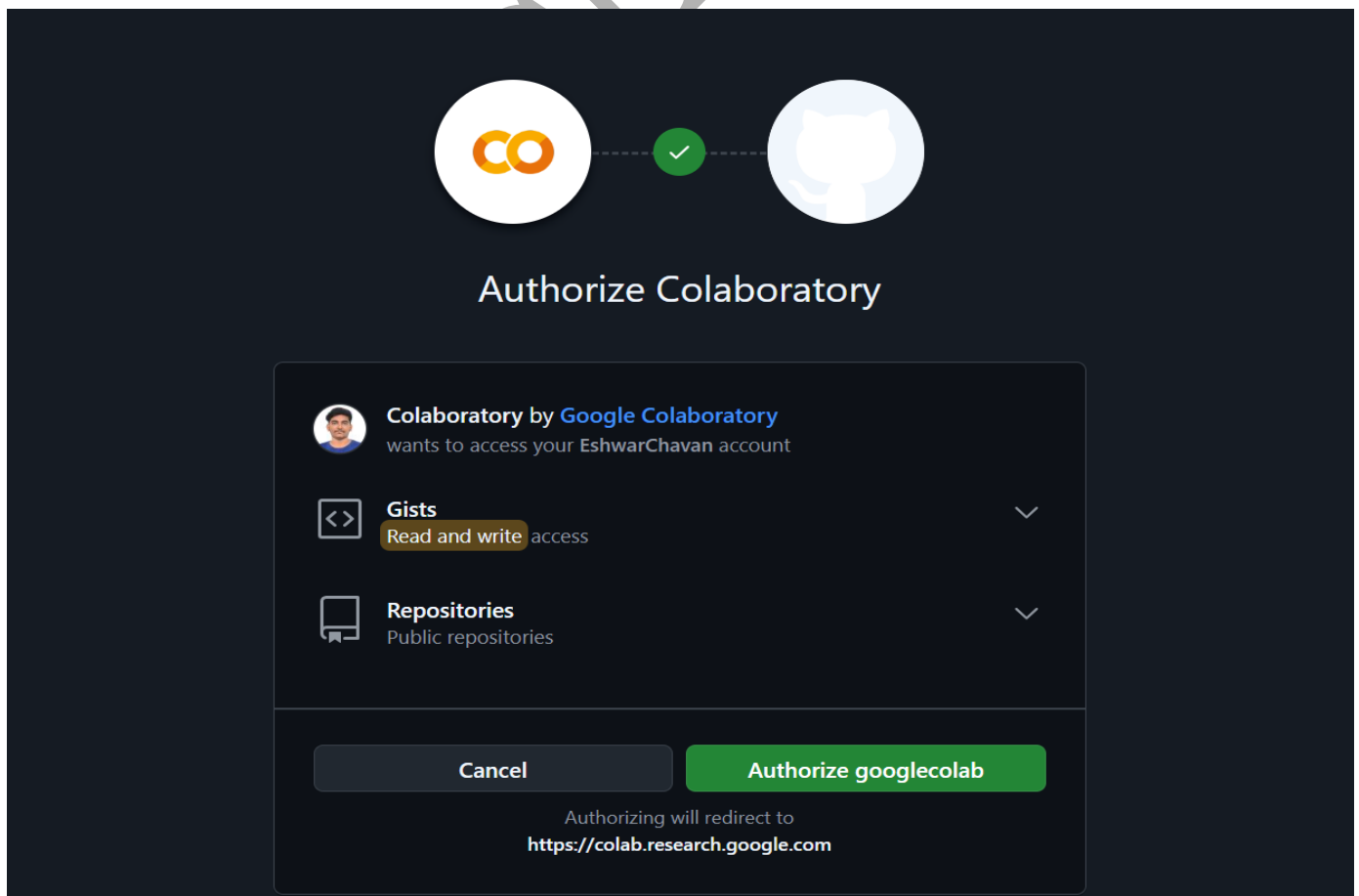
7. Push Versions to GitHub:

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

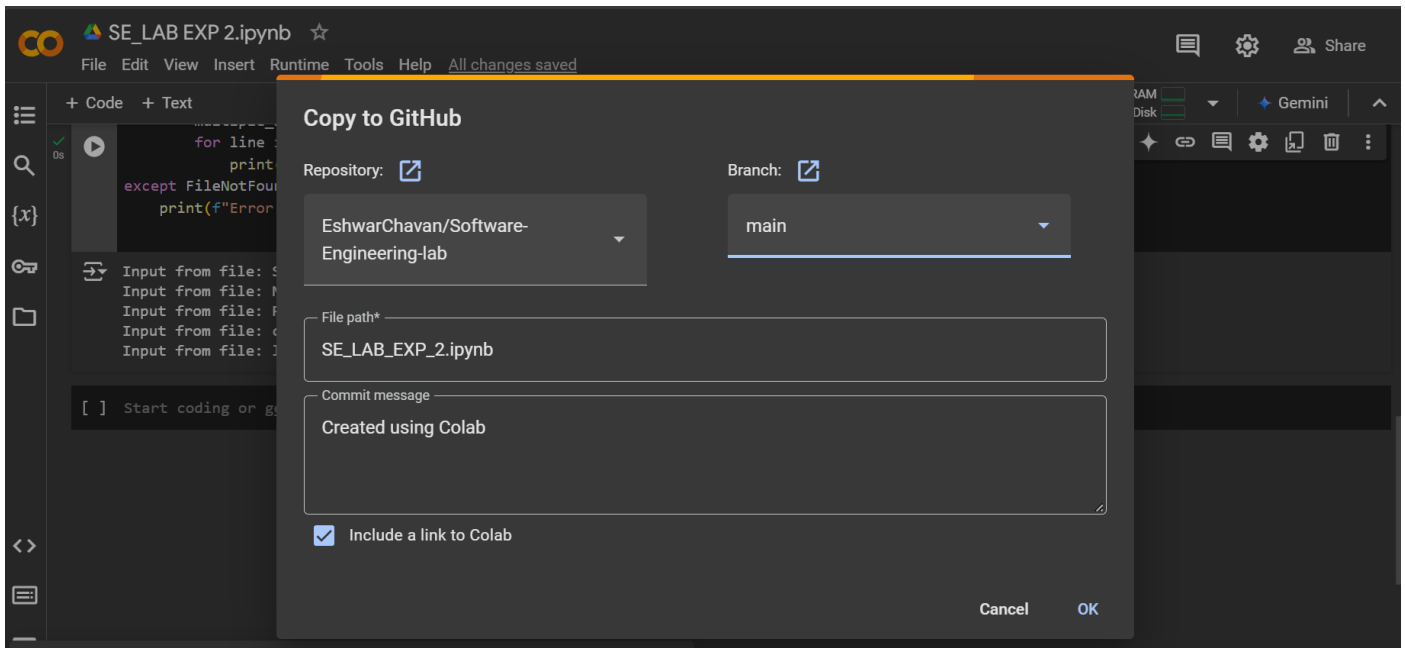
Step 1: Click on file and select option save a copy in GitHub



Step 2: Authorize Colaboratory



Step 3: Click on ok for copying to GitHub



Step 4: Pushed into GitHub

