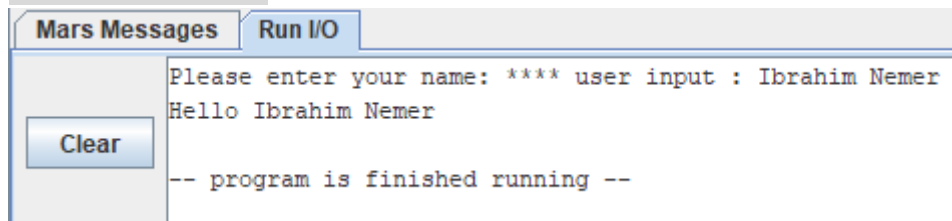


Lab02: Introduction to MIPS Assembly Programming

Task(s):

1. Write a MIPS program that asks the user to input his name and then prints "Hello ", followed by the name entered by the user.

SAMPLE RUN:



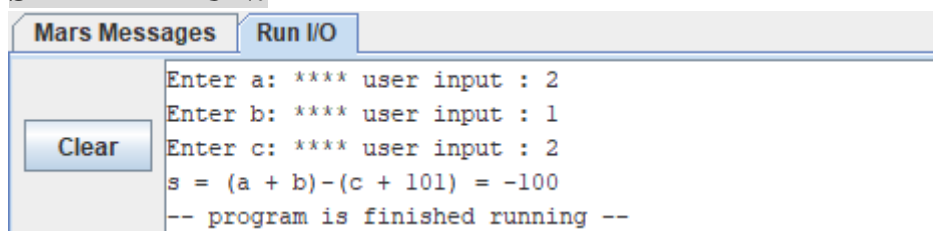
The screenshot shows a MIPS simulator window with two tabs: "Mars Messages" and "Run I/O". The "Run I/O" tab is active. The output text is as follows:

```
Please enter your name: **** user input : Ibrahim Nemer
Hello Ibrahim Nemer
-- program is finished running --
```

There is a "Clear" button on the left side of the window.

2. Write a MIPS program that executes the statement: $s = (a + b) - (c + 101)$, where a, b, and c are user provided integer inputs, and s is computed and printed as an output.

SAMPLE RUN:



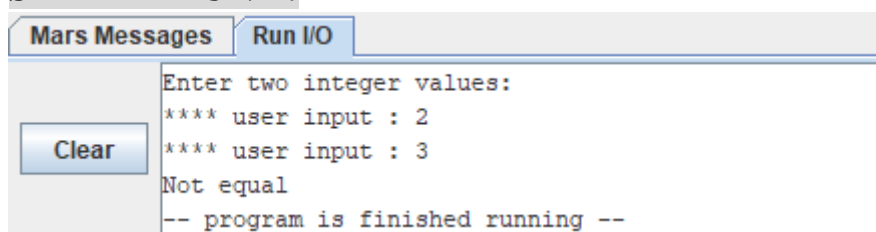
The screenshot shows a MIPS simulator window with two tabs: "Mars Messages" and "Run I/O". The "Run I/O" tab is active. The output text is as follows:

```
Enter a: **** user input : 2
Enter b: **** user input : 1
Enter c: **** user input : 2
s = (a + b) - (c + 101) = -100
-- program is finished running --
```

There is a "Clear" button on the left side of the window.

3. Write a MIPS program that inputs **two integer values**. The program should output **equal** if the two integers are equal. Otherwise, it should output **not equal**. Use the **branch** instruction to check for equality.

SAMPLE RUN-1:

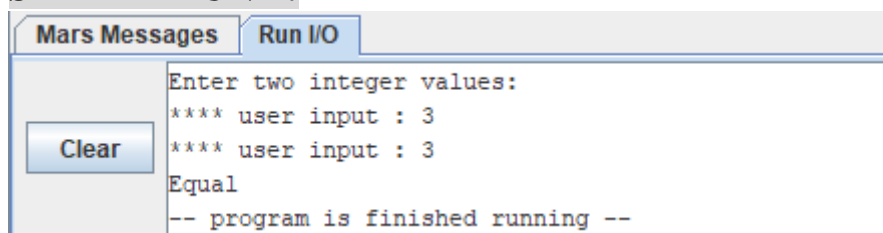


The screenshot shows a MIPS simulator window with two tabs: "Mars Messages" and "Run I/O". The "Run I/O" tab is active. The output text is as follows:

```
Enter two integer values:
**** user input : 2
**** user input : 3
Not equal
-- program is finished running --
```

There is a "Clear" button on the left side of the window.

SAMPLE RUN-2:



The screenshot shows a MIPS simulator window with two tabs: "Mars Messages" and "Run I/O". The "Run I/O" tab is active. The output text is as follows:

```
Enter two integer values:
**** user input : 3
**** user input : 3
Equal
-- program is finished running --
```

There is a "Clear" button on the left side of the window.