

Type equation here.

Lab Task

course name [Course Code]:	Computer Organization and Assembly Language [CS-2165]	Course Instructor:	Mr. Faizan Younas
Due Date:	Before the next lab	Weightage:	100%

Instructions:

- Do not copy and paste solutions from other sources. Any instances of cheating will result in zero marks.
- In your code, include your registration number and name in comments at the top of the program.
- Run your program in DOSBox and take a clear screenshot of the output with code. Paste the screenshot into a Word document.
- Save the Word document as a PDF file and name it with your registration number (e.g., "1234567.pdf").
- Submit the PDF file as your final solution.

Note: Make sure to proofread your solutions carefully to ensure accuracy and completeness.

Practice Question

1. Write an assembly program that takes a lowercase alphabet from the user and prints the corresponding uppercase letter.
2. Write an assembly program that takes an uppercase letter from the user and prints the corresponding lowercase letter.
3. Write an assembly program to create a variable, save your name as a string in the variable, and print it on the screen.
4. Write an assembly program to create a variable, save one value in it, take a second value from the user, add both values, and print the sum on the screen.
5. Write an assembly program to take two inputs from the user with proper prompts, sum these values, and display the result on the screen. The output must be similar to this:

Output

Enter first value: 3

Enter second value: 2

Sum is: 5

6. Write an assembly program to take two inputs from the user with proper prompts, subtract these values, and display the result on the screen. The output must be similar to this:

Output

Enter first value: 3

Enter second value: 2

Subtract is: 1

7. Write an assembly program to take two inputs from the user with proper prompts, calculate both the sum and the difference of these values, and display the results on the screen. The output must be similar to this:

Output

Enter first value: 3

Enter second value: 2

Sum is: 5

Subtract is: 1

8. Write an assembly program to print the numbers 0 to 9 on the screen using a loop.
9. Write an assembly program to print all lowercase alphabets on the screen.
10. Write an assembly program to print all uppercase alphabets on the screen.
11. Write an assembly program to print all lowercase letters on the screen using a loop, with each letter on a new line.
12. Write an assembly program to print all uppercase letters on the screen using a loop, with each letter on a new line.