



EE2003 – Computer Organization and Assembly Language (Sp'24)

May 2024

Assignment: 03, **Weight:** 3.0, Due Date: 2 Jun, **CLO:** 3

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Name: _____ **Roll No. P** ____ - _____

Section: BAI-4A

Note:

Plagiarism will be marked zero straight away to all parties involved.

Question: Write a recursive function to calculate the Fibonacci of a number. The number is passed as a parameter via the stack and the calculated Fibonacci number is returned in the AX register. A local variable should be used to store the return value from the first recursive call. The Fibonacci function is defined as follows:

Fibonacci(0) = 0

Fibonacci(1) = 1

Fibonacci(n) = Fibonacci(n-1) + Fibonacci(n-2)