Buffer overflow (CS 915)

Post-Lab Assignment (100 marks)

Submit a report, addressing the following questions.

- Background: Explain what buffer overflow is, how it works with the help of memory layout diagrams, the countermeasures, and how these countermeasures may address this problem. [20]
- Level 1 attack: 1) Explain the results of this attack with screenshots. 2) Explain how you set the **ret** and **offset** values, and why. [40]
- Level 2 attack: 2) Explain the results of this attack with screenshots. 2) Explain how you set the **ret** and **S** values, and why. [40]