ISEC 2000 Fundamental Concepts of Cryptography
Lab 1
@ Computing, Curtin University

Notes:

- Make sure you complete prac questions. Assignments are highly related to them. In fact, programming questions are building blocks for the assignments.

- Group discussion is encouraged but make sure you complete questions individually.

- Ask questions not just answers. There is no answer of prac questions documented or provided for computing units.

- You can use your preferred programming language, C/C++, Java, or Python. Do NOT rely on libraries excessively.

1. List and briefly define the three key objectives of computer security.

2. List and briefly define categories of passive and active security attacks.

3. Please write a program to count the appearance frequency of English letters in a given text input. Your program should take a txt file as input and output a bar chart of letter frequency. Compare your figure to Fig.1.
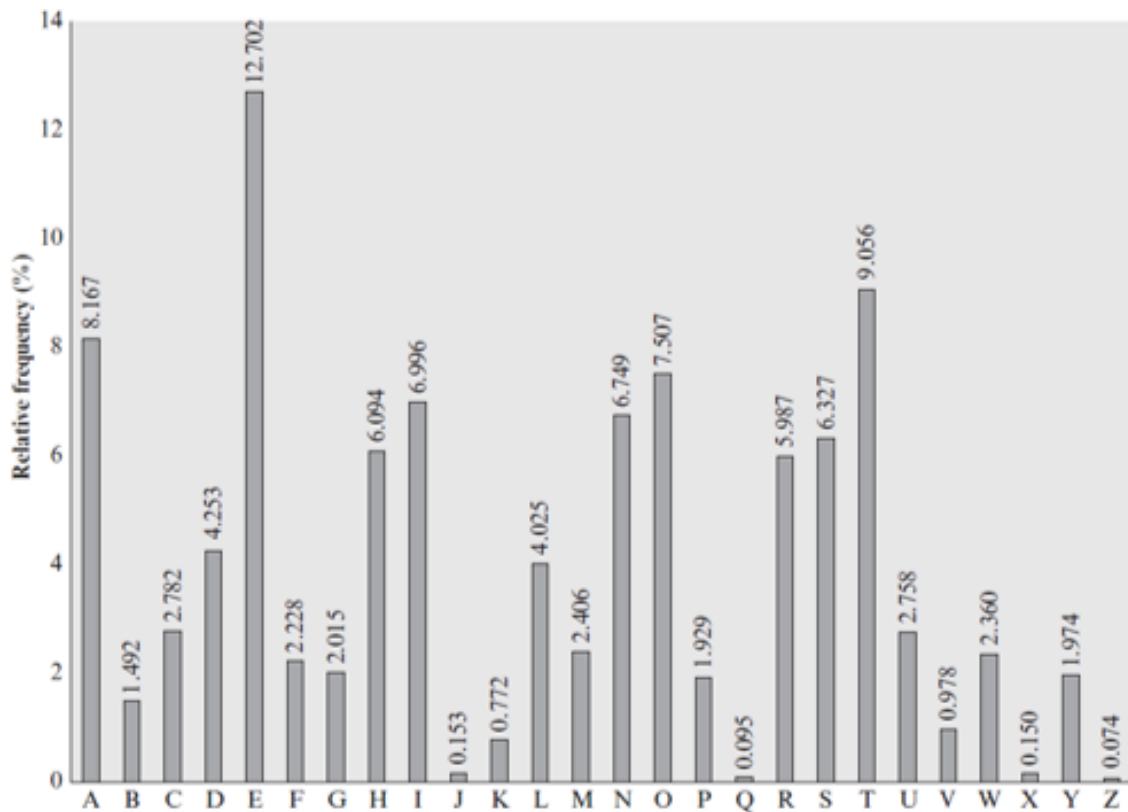

Figure 1: Relative frequency of English letters.