**Introduction to Computer Science**

**Faculty of Computing**

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**Tutorial Session 06**

**Answer all questions.**

1. Perform following calculations.
   1. 52116 + A75C16
   2. E1423A16 + 1BA16
2. Explain how characters are stored inside the computer in your own words.

* **Using Binary Numbers, which is known as a character-encoding system.**
* **ASCII, EBCIDIC**
* **Character sets used today in the US are generally 8-bit sets with 256 different characters, effectively doubling the ASCII set. One bit can have 2 possible states. 21=2.**

1. Explain the importance of number representation in computing.

* To share a common development language which enables us to share the documents and other files.
* Like we take English language as our universal language to communicate

1. Explain what is meant by BCD representation.

* Binary Coded Decimal - Representing Numbers Using Only Binary Numbers which has 4 digits.
  + ex. 00012

1. Represent following numbers by using BCD number representation.
   1. 234
   2. -657
2. Represent following numbers by using Zone Decimal representation.
   1. 974
   2. -32
   3. 21