

Name: JUMANA AHMED
ID : 1712418042

Answer: to the Question Number: 1

LEA: LEA is an instruction set that load 'offset variable' while adjusting the address between 16 and 32 bits as necessary.

OFFSET: 'Offset' is an assembler directive in x86 assembly language. It actually means 'address' and is a way of handling the overload of 'mov' instruction.

Answer: to the Question Number: 2

~~Data~~ DATA SEGMENT is the starting point of the Data Segment in a Program and DATA is the given name to this segment.

Answer: to the Question: Number: 3

ASSUME DS:DATA CS:CODE

In Assembly Language programming there are different registers present for different purpose. So we have to assume DATA is the name given to Data Segment Register and ~~CODE~~ CODE is the name given to Code Segment Register.

Answer: to the Question Number: 4

BX, SI, DI, BP are 4 types of register for accessing memory.

Example:

```
MOV    BX, 30h
MOV    DI, 10h
LEA    SI, [BX+DI]
```