1) LEA is an instruction which load 'offset' while adjusting the address between 16 and 32 bits as necessary. LEA means load effective address.

OFFset: offset is an assembler directive in x86 assembly language. It actually means address. ~~and are way of getting~~ it actual not value rather the address of value.

2) Data segment: Data segment is a portion of a object file corresponding address space of program that contain initialized variables. ~~the~~ generally points to the variable we they defined.

.Data: Data is the ~~actual thing~~ facts or stats collected for reference and analysis. Data used

For loading data segment we initialize the offset into dx register.

3] We have to assume data segment and the code segment DATA is the name of data segment and CODE is the name of code segment. In exe assembly we have to assume that.

4] To access memory we can use BX, SI, DI and BP. We can combine them for access different memory locations

[BX+SI] [BX+DI] [BP+SI] [BP+DI]	[SI] [DI] d16 [BX]	[BX]+[SI]+d8 [BX+DI+d8] [BP+SI+d8] [BP+DI+d8]
[SI+d8] [DI+d8] [BP+d8] [BX+d8]	[BX+SI+d16] [BX+DI+d16] [BP+SI+d16] [BP+DI+d16]	[SI+d16] [DI+d16] [BP+d16] [BX+d16]