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ANS:1

LEA means Load Effective Aldress.

The Algorithm for it is:

REG = Address of memory (offset)

EXAMPLE: MOV BX, 35 Li

MOV DI, 12h

LEA SI, [BX+DI]

Offset me ans an assemble to directive of the language. It actually means in X86 language. It actually means address and is a way of handling the overlanding of the most instruction MOV.

E.g.: MOV SI, offset variable.

MOV SI, vaniable.

ANS: 4 BY, SI, DI, BP. and 1 megisters. The we F.g. : [BX+SI] [SI] [BX +SI+d8] BX+DI] [DI] [BX+DI+48] offset only) BP+BI+d8] [BP+SI] alla (Vavoi able [BP +DI][BX] [BP+DI+28] [SI+J8] [BX +SI+J16] [SI+ d16] [DI+18] [BX+DI+16] [DI+16] [BP+18] [BP+5I+16] [BP+416] [BX + 28] [BP + DI + 218] [BX + 218]

## ANS: 2

In Assembly Language Proognamming there are different negisters presently for different puroposes. So we have to assume DATA is the mame given to DATA segment negister and COPE to DATA segment register and cope is the name given to cook segment register.

DATA SEGMENT is the starting point of the lata segment in a program and DATA is the name giren to this segment and SEGMENT is the begword for SEGMENT is the begword for Segments, where we can declare variables.

AND, DATA weams the data section which is used son declaring initialized data ato constants. This data does not change in muntime.

Varoious constant values, file name, and bubber site can be declared in this section.