

Signature: Pie

16/EN602/039

Computer Engg

400 Level | 300 Level

COE 306 - Assembly Language

Date: 25-July, 2020

1. It would not be good because the addresses coded in the instruction would need to be up to date whenever a new variable was inserted before old existing ones.

B. Main types of files produced by an assembler:

1. Object

2. Obj and listing

3. LST files.

Question NO 2:

2. Portability is an attribute related to computer programming which simply allows it to be used in an operating system which is different from the one it was created without there being much need for major rewrite.

2B. No they are not the same because each assembly language is based on either a processor family or a specific computer.

Signature :- Rie

20, 16-bit	32-bit
Ax	EAX
Bx	EBX
Cx	ECX
Dx	EDX
	-ESI
	EAI
	EBP
	ESP

Question NO 3:

A. Each segment is used to contain a specific type of data, one segment is used to contain instructions, codes, another segment stores the data elements and the third segment keeps the program stack. It is represented by data section. It improves the speed of execution of the computer system and logically divides the main memory into different segments.

B. main proc

The proc directive interprets the start of a procedure ^{main} is the name chosen for the procedure.

mov Ax, 7104

The integer 47104 is move/corried to the Ax register

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Title Subhead Three Integer
; This program Subhead three integer
data

Val D word 7000h

Val D word 4000h

Val D word 2000h

final Val D word ?

o Code

main proc

mov Ax Val 1

sub Ax Val 2

sub Ax , Val 3

mov final Val , Ax

call dumpings

Exit

main ENDP

Signature : Eri

ADD AX, 1270

The Number 1270 is added to the AX Register

MOV DS, AX

The Current Value of the AX Register is moved or Copied to the DS Register

main END

The ENDP directive ends the procedure i.e. the main procedure