COAL ASSIGNMENT #1

Date_

Q1)

- Role of Compiler:

Compiler converts the high-level programming language into assembly language (chose to machine language)/
computer understable language) and then the assembler converts it into machine language. The compiler can also converts high level programming language into machine add directly without converting it to assembly language first as an intermediate.

- Role of OS;

The Os loads the machine language program into the memory when the program is launched the Framework dispatches the program, adding a space of RAM for the program. machine code Drogkam's is stacked into memory Furthermore the OS guider the CPU as to begin evnning the code to how

-Role of Linking:

creation After the of object file by the assembles the linking is process performed to perduce the executable gile in which the linkee reads the object file to check calls to procedures in the link library. The gor any then copies any required procedures from linked by library combines then with the produces the executable and.

In real-address mode the segment register holds the base address of pre-assigned memory areas of the RAM.

In protected mode the segment register holds pointers to the descriptors which tells us about the location, length and access eights of memory segments.

(V3)
a) segment = ABOE h
offset = 5D89h
Real Address = 2

Real Address = (segment * 10) + offset = ABOEOh + 5D89h = BOE69h

b) Segment = 8FE3h offset = 7 Real Address = A835F h

Real Address = (segment*10)+affset A835Fh = 8FE30h + affset

offset = A83BFh - 8FE3Oh = 1852Fh

c) Segment = ? Offset = 5E6Dh Real Address = FF41Dh	Date
Officet - E	
Real Address & Ebph	
FF41Dh	Tolker for given
Paul All	A A Commence of the second
FELLIDI = (Segment + 12)	
1000 = (segment *12) 1 C-	+cet
Real Address = (Segment *10)+0 FF41Dh = (Segment *10) + 5F Segment = (FF41Dh - 5E6Dh) Segment = F95Bh	6Dharman Indiana
you	1/(0)
segment = F95Bh	The Target The
d) Segment = ?	College Bell and College
Offset = ?	Harry of The
d) Segment = ? Offset = ? Real Address = A5B6Dh	
let Offset = F88Dh	
가 보고 있는 1일 및 전 전 등 4 - 10kg [약호] 공기 (Lagger 10)를 보기하고 있다. (1) 등 보고 가 되었다. (1) 등 10 등 10 등 10 등 10 등 10 등 10 등 1	
Real Address = (segment *10)	+ 02001
- TODOUN = (comput +10), t	0001
segment = (ABB6Dh - F88Dh)	lin
segment = 962Eh	_/ 10
04)	
· class file of jave is plats	form independent because
the compiler converts source coo	le to bytecodo (Jasc)
which is an intermediate language	e and can be executed
machine code is made by Ja	va virtual machine an
on any operating system I plat machine code is made by In it depends on the operating sy platform dependent.	istem which makes it
platform dependent!	

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