This activity needs all the students to create 10 minimum questions from the following topics.

- 1. text section
- 2. data section
- 3. bss
- 4. stack
- 5. call stack

1) Text Section

- 1. Give another name for Text Segment.
- Code Segment
- 2. Why we use Text Segment?
- To store assembled machine language instructions
- 3. To where the EIP register is pointing within the text segment?
- To the first instruction in the segment
- 4. What processes are done within an execution loop?
 - 1) Reads the instruction that EIP is pointing to.
 - 2) Adds the byte length of the instruction to EIP.
 - 3) Executes the instruction that was read in step 1.
 - 4) Goes back to step 1.

- 5. What will happen if you don't update the instruction by adding byte length?
- First instruction will always be executed.
- 6. Why does it allow the EIP to go to another different memory area & again come back to the original place?
- Because it does not expect linear execution.
- 7. Why "write" permission is disabled in text segment?
- Because it's not used to store variables but to store only code.
- 8. What are the advantages in disabling "write" permission?
- It prevents people from modifying the program code.
- It allows multiple executions of the program at the same time without any problems.

2) Data Section

1.	Give another name for Data Segment.
•	Initialized Data segment
2.	The data segment is filled with the initialized, andvariables.
•	global, static, constant, external
3.	Data segments can further be classified as and
•	Read-only area, read-write area
4.	The variable initialized as "const" will come under area. Remaining al
	others will come under area.
•	Read-only, read-write

3) <u>BSS</u>

- 1. Give another name for BSS.
- Uninitialized Data segment
- 2. The bss segment is filled with their ______.
- Uninitialized counterparts
- 3. What does BSS refers to?
- Block Started by Symbol

4) <u>Stack</u>

1.	Where does stack grows towards?
•	Lower Address Space
2.	What arguments are stored on top of the stack memory area?
•	Command-line arguments & environmental variables
3.	Why we use Stack?
	While your program is running, the machine language instructions load into the
	stack.
4.	All are stored in stack segment.
•	Local variables
5.	Stack segment is used for passing to the along with
	the return address of the instruction.
•	Arguments, functions
6.	Give some uses of stack?
•	Remember all of the passed variables.
•	The location the EIP should return to after the function is finished.

7.	Stack refer	order.			
•	Last-in First-out (LIFO) / First	t-in Last-out (FILO)			
8.	When an item is placed into t	he stack it's called as	_ and when an item		
	is removed from the stack it's	s called as			
•	Pushing, popping				
9.	What is the purpose of having	g ESP register?			
•	To keep track of address of t	he end of the stack.			
10. Because of its behavior, we can consider that stack doesn't have fixed size.					
•	Dynamic				
11	. What stack frames can be se	en in here?			
•					
•	Secret Frame				
•	Jediet i fame				

5) Call Stack

	Explain the process that happens in here. When you call a function, the system set aside space in memory for that function to do its necessary work.
	Here we frequently call stack frames or Chunks of memory, function frames
	"More than one function's stack frame may exist in memory at a given time." True True
	For a given time, how many functions (open frames) can be active? Only one of those frames
	How are these frames arranged? In a stack
6. •	The frame for the most-recently called function is always On top of the stack

- 7. In which locations the functions / frames are located inside the stack?
- main () → At the bottom
- move () \rightarrow Above the main ()
- direction () → On the top (This is the active frame now)