



Computer Organization & Assembly Language

LAB 04

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Task 1

DATE: 1/1/2023

Computer Organization & Assembly Lang

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- 1) Write an assembly program to print your rapid in characteristics.
- 2) Write an assembly language to print COAL with ASCII Code
- 3) Explain stack, code and data Segment in your own words.

Answer 01:

- data
- code

```
main proc  
    mov dl, '6'  
    mov ah, 2  
    int 21h
```

```
    mov dl, '6'  
    mov ah, 2  
    int 21h
```

```
    mov dl, '5'  
    mov ah, 2  
    int 21h
```

```
    mov dl, '7'  
    mov ah, 2  
    int 21h
```

```
    mov dl, '2'  
    mov ah, 2  
    int 21h
```

Task 2

DATE: / /	
Answer Q2:	
Stack:	
• data	65①
• code	66②
main proc	67③
mov dl,67	68④
mov ah,2	69⑤
int 21h	70⑥
mcv dl,79	71⑦
mov ah,2	72⑧
int 21h	73⑨
mov dl,65	74⑩
mov ah,2	75⑪
int 21h	76⑫
mov dl,76	77⑬
mov ah,2	78⑭
int 21h	79⑮
ret	80⑯
	81⑰
	82⑱
	83⑲
	84⑳
	85㉑
	86㉒
	87㉓
	88㉔
	89㉕
Stack is a set of data that is kept one above another.	
In Stack LIFO (Last Input first output) concept is used. in an assembly language we use Stack to refer the stack.	
Code:	
Code is a set of instruction given to a program compiler to do some specific task and in assembly	

Task 3

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Language - we use "code" and after that we start writing our instruction.

data Segment: The segment of data while the variables are stored is called data segment it is a type of segment of register.