**LAB - 01**

Q: Write a program to print a letter A using ASCII code.

*dosseg*

*.model small*

*.code*

*main proc*

*mov dl,65*

*mov ah,2*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

**LAB - 02**

Q: Write a program to print a letter O.

*dosseg*

*.model small*

*.code*

*main proc*

*mov dl,"O"*

*mov ah,2*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

Q: Write a program to take input a single character and then print it.

*dosseg*

*.model small*

*.code*

*main proc*

*mov ah,1*

*int 21h*

*mov dl,al*

*mov ah,2*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

Q: Write a program to print the addition of two numbers.

*dosseg*

*.model small*

*.code*

*main proc*

*mov al,3*

*mov dl,5*

*add dl,al*

*add dl,48*

*mov ah,2*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

**LAB - 03**

Q: Write a program to print a letter A using Data Segment.

*dosseg*

*.model small*

*.stack 100h*

*.data*

*v1 db "A"*

*.code*

*main proc*

*mov ax,@data*

*mov ds,ax*

*mov ah,2*

*mov dl,v1*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

Q: Write a program to print a string value using Data Segment.

*dosseg*

*.model small*

*.stack 100h*

*.data*

*v1 db "ABC$"*

*.code*

*main proc*

*mov ax,@data*

*mov ds,ax*

*mov ah,9*

*mov dx,offset v1*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

Q: Write a program to print a string value using Data Segment. And add numbers in it.

*dosseg*

*.model small*

*.stack 100h*

*.data*

*s1 db "number1 = $"*

*s2 db 10,13,"number2 = $"*

*s3 db 10,13,"sum =$"*

*.code*

*main proc*

*mov ax,@data*

*mov ds,ax*

*mov ah,9*

*mov dx,offset s1*

*int 21h*

*mov ah,1*

*int 21h*

*mov bl,al*

*mov ah,9*

*mov dx,offset s2*

*int 21h*

*mov ah,1*

*int 21h*

*add bl,al*

*mov ah,9*

*mov dx,offset s3*

*int 21h*

*mov ah,2*

*mov dl,bl*

*sub dl,48*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

**LAB - 04**

Q: Write a program to Divide two numbers.

*dosseg*

*.model small*

*.code*

*main proc*

*mov al,9*

*mov bl,3*

*div bl*

*mov ch,al*

*mov cl,ah*

*mov ah,2*

*mov dl,ch*

*add dl,48*

*int 21h*

*mov ah,2*

*mov dl,cl*

*add dl,48*

*int 21h*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*

Q: Write a program to Divide a string value using Stack Segment.

*dosseg*

*.model small*

*.stack 100h*

*.code*

*main proc*

*mov ax,1234*

*mov bx,10*

*mov cx,0*

*L1: mov dx,0*

*div bx*

*push dx*

*inc cx*

*cmp ax,0*

*jne L1*

*L2: mov ah,2*

*pop dx*

*add dl,48*

*int 21h*

*loop L2*

*mov ah,4ch*

*int 21h*

*main endp*

*end main*