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LAB-REPORT-9

Content of lab 9: Passing parameter to function

I have create a function which will take the parameters one is name second the location where we want to print and the third parameter will be the length of the string.....Basically the parameters that we push are actually pushed in stack and in the subroutine we use bp parameter in the subroutine to acess the parameters

[org 0x0100] jmp start

name : dw "Shoaib Akhtar"

nameLength: dw 13 caste: dw "Babar" casteLength: dw 5

clrscr:

push ax push es push di

mov ax, 0xb800 mov es, ax mov di, 0

11:

mov word [es:di], 0x0720 add di, 2

```
cmp di, 4000
              jne I1
       pop di
       pop es
       pop ax
       ret
printname:
       push bp
       mov bp, sp
       push ax
       push bx
       push cx
       push dx
       push si
       push di
       push es
       mov ax, 0xb800
       mov es, ax
       mov di, 0
       mov si, [bp+8]; parameter of string
       mov di, [bp+6]; location where we want to print
       mov cx, [bp+4]
       mov al, 0x02
       I10:
              mov dl, [si]
              mov word[es:di], dx
              add di, 2
```

```
add si, 1
```

loop I10

pop es pop si pop di pop dx pop cx pop bx pop ax pop bp

ret 6

printname1:

push bp mov bp, sp push ax push bx push cx push dx push si push di push es

mov ax, 0xb800 mov es, ax mov di, 1992 mov dh, 0x01 mov si, [bp+6]

mov cx, [bp+4]

13:

```
mov dl, [si]
       mov word[es:di], dx
       add di, 2
       add si, 1
       loop 13
       pop es
       pop si
       pop di
       pop dx
       рор сх
       pop bx
       pop ax
       pop bp
       ret 4
start:
call clrscr
mov ax,1234
push ax
; This function will print the numbers that we will pass as a parameter
; pushing parameters name and di location and length of the string
push name
```

push 0
push word[nameLength]

call printname

push caste push 30 ; this is the value of di where i want to print push word[casteLength]

call printname

;These are the parameters that we will push

mov ah, 0x01 int 0x21

mov ax, 0x4c00 int 0x21

DOSBox 0.74-3, Cpu speed:	3000 cycles, Frameskip 0), Program: PRINTNUM 🕒 🛛 🔯
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