------------------------------------------------------------------

Name: Akshay Chaudhari

Std: SE Div: A

Roll no.:32

------------------------------------------------------------------

**PROGRAM:**

section .data

msg db 10,"co processor is 80387",10

msglen :equ $-msg

msg2 db "co processor is not 80387",10

msg2len :equ $-msg2

section .bss

var1 resb 4

var2 resb 4

var3 resb 4

%macro inf 4

mov eax,%1

mov ebx,%2

mov ecx,%3

mov edx,%4

int 80h

%endmacro

section .text

global \_start

\_start:

CPUID

mov [var1],ebx

mov [var2],edx

mov [var3],ecx

inf 4,1,var1,4

inf 4,1,var2,4

inf 4,1,var3,4

SMSW eax

mov edx,eax

bt edx,4

jnc label

inf 4,1,msg,msglen

call exit

label:

inf 4,1,msg2,msg2len

exit:

mov eax,1

mov ebx,0

int 80h

**OUTPUT :**

[student@localhost ~]$ nasm -f elf64 cpu.asm -o cpu.o

[student@localhost ~]$ ld -o cpu cpu.o

[student@localhost ~]$ ./cpu

GenuineIntel

co processor is 80387

[student@localhost ~]$