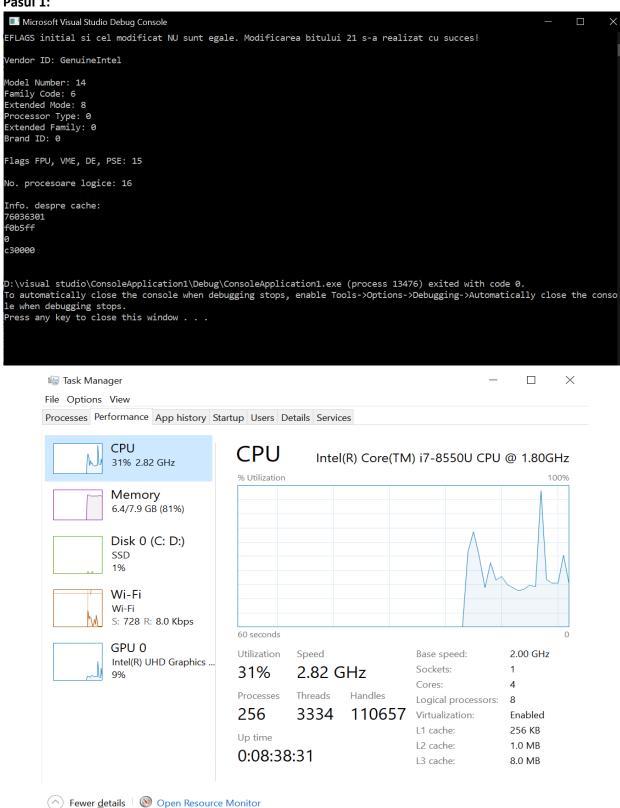
## Tema4 PMD Velciov Diana 7.2

## Pasul 1:



## Pasul 2:

Device specifications					
Device name	DESKTOP-SCLQ3MK				
Processor	Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz 2.00 GHz				
Installed RAM	8.00 GB (7.87 GB usable)				
Device ID	B5FE1773-7237-4EF7-98AD-F9340FEAE01E				
Product ID	00329-00000-00003-AA490				
System type	64-bit operating system, x64-based processor				
Pen and touch	Pen and touch support with 20 touch points				
Сору					

Microsoft Windows 10 Enterprise

Value

Item OS Name

Processors				
Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
🔲 Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
🔲 Intel(R)	Core(TM)	i7-8550U	CPU @	Ò
Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
🔲 Intel(R)	Core(TM)	i7-8550U	CPU @	Ò
Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
Intel(R)	Core(TM)	i7-8550U	CPU @	Ď
_				

Version	10.0.19044 Build 19044
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	DESKTOP-SCLQ3MK
System Manufacturer	LENOVO
System Model	81BL
System Type	x64-based PC
System SKU	LENOVO_MT_81BL_BU_idea_FM_ideapad 520S-14IKB
Processor	Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz, 2001
BIOS Version/Date	LENOVO 4QCN41WW(V2.05), 12/12/2017
SMBIOS Version	3.0
Embedded Controll	2.41
BIOS Mode	UEFI
BaseBoard Manufact	LENOVO
BaseBoard Product	LNVNB161216
BaseBoard Version	No DPK
Platform Role	Mobile
Secure Boot State	Off
PCR7 Configuration	Elevation Required to View
Windows Directory	C:\WINDOWS
System Directory	C:\WINDOWS\system32
Boot Device	\Device\HarddiskVolume2
Locale	United States
Hardware Abstractio	Version = "10.0.19041.1151"
User Name	DESKTOP-SCLO3MK\Didi

Numarul de procesoare logice NU coincide cu cel real.

Pasul 3:

1) Arm lust dim documentation INTEL:

EAX = 21 28 25 20 19 16 15 14 13 12 11 18 2 Thomas Stepping

I'm variabilele model Num, Family Code, proc TYPE, ExtMODE, extFam

se salveare compuni luste dim vectorul "processon signature" (fig. du mai
sus). Ele sunt preluate in variabile (in portea de cod assembly) folosimi
mestile pe biti. Astfel, variabile maastre comptin multe cipre de o
atat mainte, cat si dupe informatio unter. Pentru a afise cochrile
respective, instrument o-unile ene sunt in plus (aperation de shift).
Shiftarule se fac au 4, 8, 12, 16 respectiv 20 de biti pentru a
afise "Model number" "Family (Code)"

"Processor Type", respectiv "Extended Family"
(bither))

- 2) Instructure "pushfol" are rolul de a copia continutul din EFLAGS pe stive Instructiure "pop eax" are rolul de a prelue continutul Stivei \$\mathbb{z}\_{i}\$ de a-l pune în EAX
- 3) Dupe cum am explicat si la exercitiul 1, registrul EAX confine imprimațiile dispre procesor, an aceste imformațiii sunt preluate în variabile. Icest lucru este posible dupe apelarea instructumii CPUID.

Extended Family poate fi gosit le indicii 20-24 Extended Model poate fi gosit le indicii 16-19

4) Days grelares instructionii CPUID, in registreed EBX
vom avec: APIC iD Count   Chunks Brand iD
APIC ID va putea fi gasit la indici 24-31, iar Count la indicii 16-23 ai registruleu.
5) Regultatul apolonii CPUID pe procesoarele intel 486 SX esti
0000 0000 0000 00 00 00 00 00 00 00 00
6) EAX pentru INTEL Pentium Pro:
0000 0000 0000 000 000 0001 XXXX
EAX penitre INIEL Core 17, arhitecture de 45 mm;
000 0000 000 000 010 1010 1XXX
EAX pentru INTEL Core 17, arhitecture de 30 mm;
0000 0000 00 00 00 00 00 00 00 00 00 00

4) unsigned long int brand D este o voriable folosité pentru a pulue imformatile den registrel EBX (mai exact, compul de le indicie 0-15 ài registrulei)