

Curs 5

➤ **Utilizarea layerului de desen: comanda LAYER**

➤ **Crearea layerelor: comanda Layer**

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- ✓ layerul este pagina curenta de desen, creata numai pentru o anumita caracteristica a desenului (de exemplu, tipuri de entitati, tipul de linie, culoare, cotari, etc.);
- ✓ se pot genera oricat de multe layere dorim; cand se lucreaza pe un layer, celelalte sunt ascunse, pentru claritatea desenului;
- ✓ la sfarsitul desenului, se activeaza toate layerele si desenul se vizualizeaza in complexitatea lui;
- ✓ layerul initial (implicit) este layerul 0;

➤ **Crearea layerelor: comanda Layer**

Command:LAYER

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: N (layere noi)

New layer(s) name:AXE, PLACA (exemplu)

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: S (alegerea layerului curent)

New current layer <0>: AXE

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: L (linetype)

Linetype (or?) <CONTINUOUS>: DASHDOT

Layer name(s) for linetype DASHDOT <AXE>:↵

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: C (culoare)

Color: RED

Layer name(s) for color RED <AXE>: ↵

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: LTSCALE

Ltscale <1.00>: 15

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ↵

Command: LINE

From point: 50,100

To point: @80,100

Command: LINE

From point: 70,80

To point: @0,40

Command: LINE

From point: 100,80

To point: @0,40

Command: ↵

Command: LAYER

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: OFF(ascundem layerul)

Layer name(s) to tutn OFF <AXE>: ↵

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ↵

Regenerating drawing

Command: LAYER

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: S (alegem alt layer curent)

New current layer < AXE >: PLACA

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ON

Layer name to turn ON <AXE>: PLACA

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: LTYPE

Linetype (or?) <DASHDOT>: CONTINUOUS

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: C (alegem alta culoare)

Color: GREEN

Layer name(s) for color GREEN <AXE>: PLACA

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ↵

-in timpul desenului, optiunea FREEZE ingheata layerul curent pentru a se lucra pe alt layer curent;

-activarea unui strat inghetat se face cu optiunea THAW;

Command: LAYER

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ON (revizualizam layerul anterior)

Layer name(s) to turn ON <PLACA>: AXE

?/Make/Set/New/On/Off/Color/Ltype/Freeze/...../Thaw: ↵

Regenerating drawing

Pentru versiunea **AutoCAD 2008**, utilizarea comenzii LAYER, are urmatoarele etape:

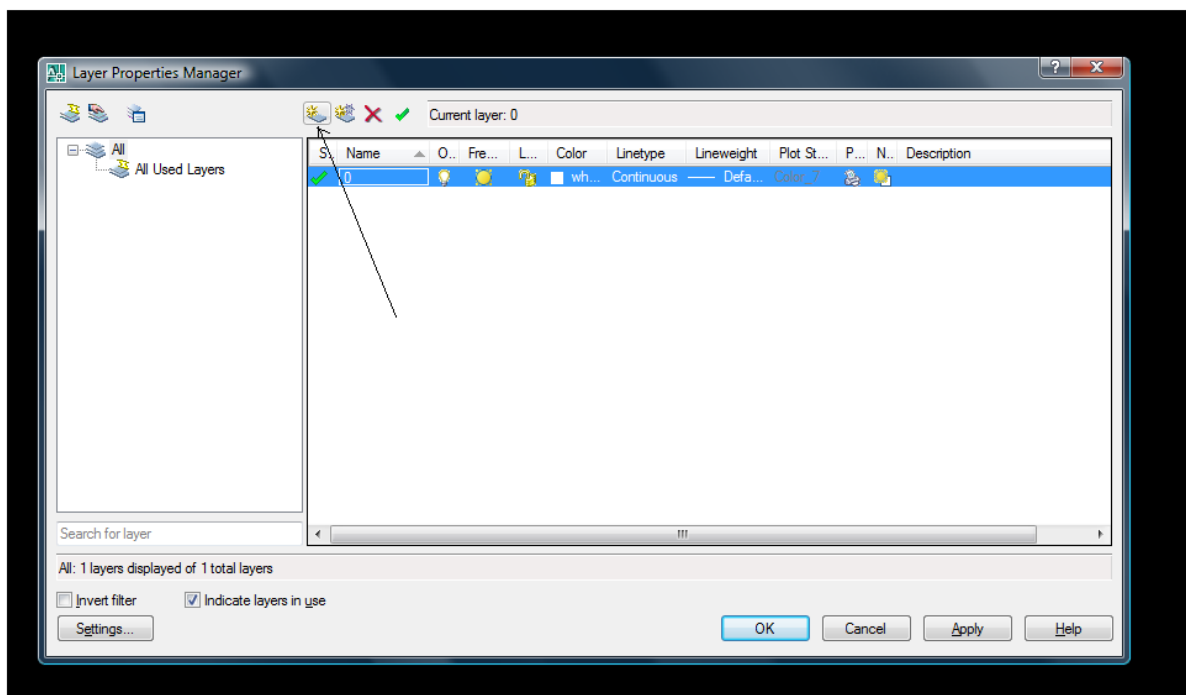
- ✓ se deseneaza o parte a desenului (exemplu):

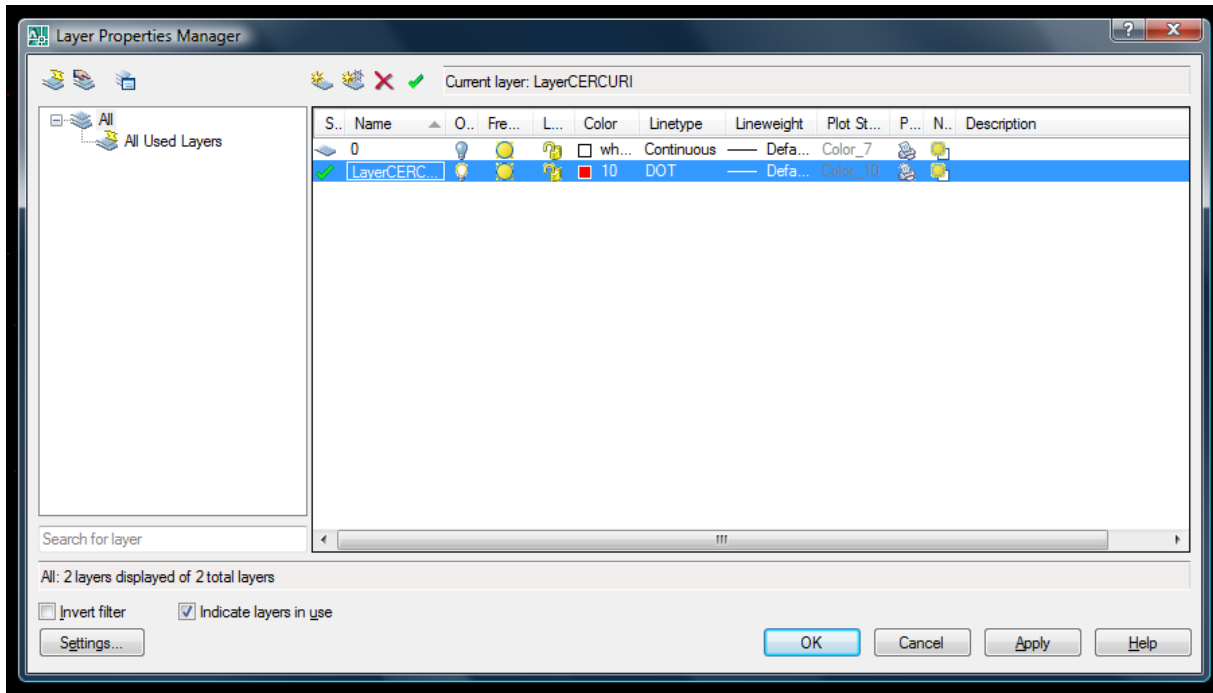
Command: POLYGON (se deseneaza poligonul pe layerul implicit 0, cu linia implicita CONTINUOUS);

- ✓ se defineste un layer nou, pe care vom desena alte detalii ale desenului:

Command: LAYER

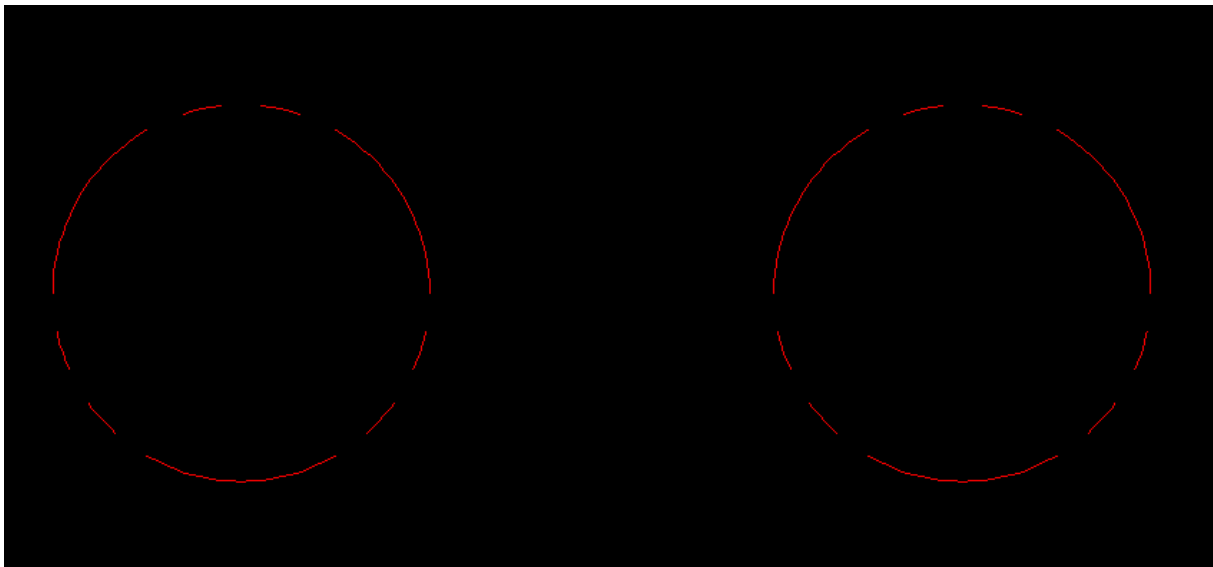
- ✓ de pe ecranul meniu, se selecteaza New Layer (pozitia sagetii); se numeste Layer CERCURI, cu caracteristicile COLOR (red), LINETYPE (phantome); activam noul layer cu click pe semnul verde;





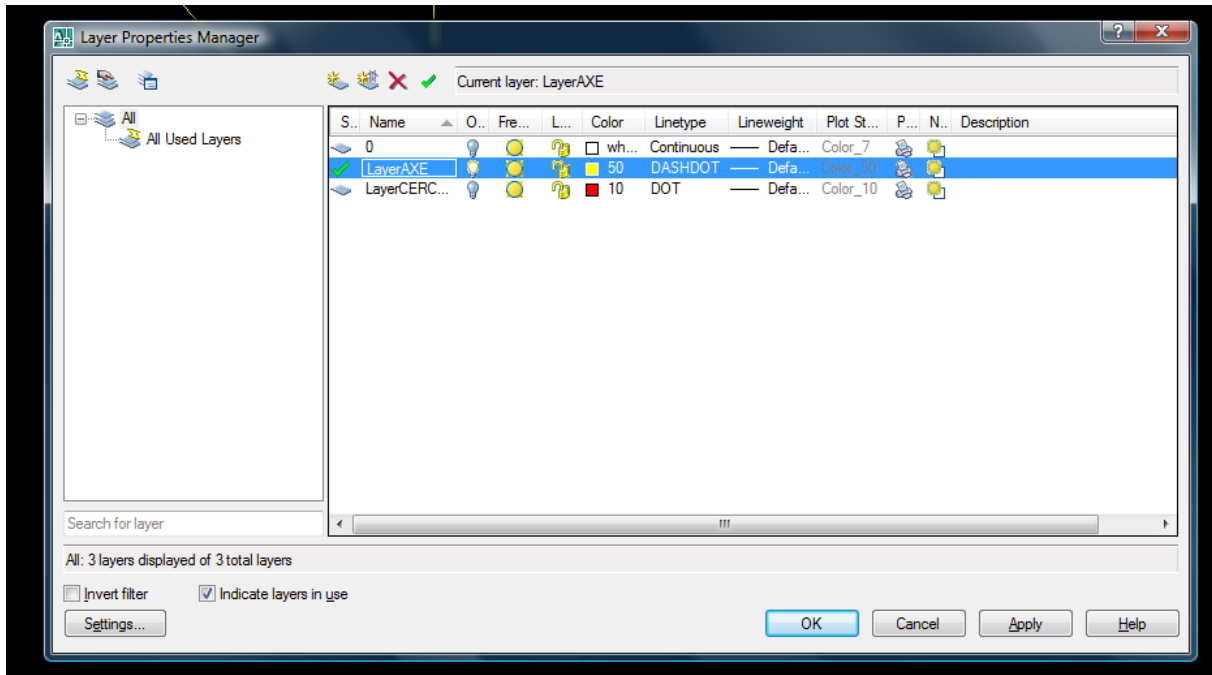
✓ pe pagina de desen, desenam :

Command: CIRCLE (doua cercuri cu raza oarecare)

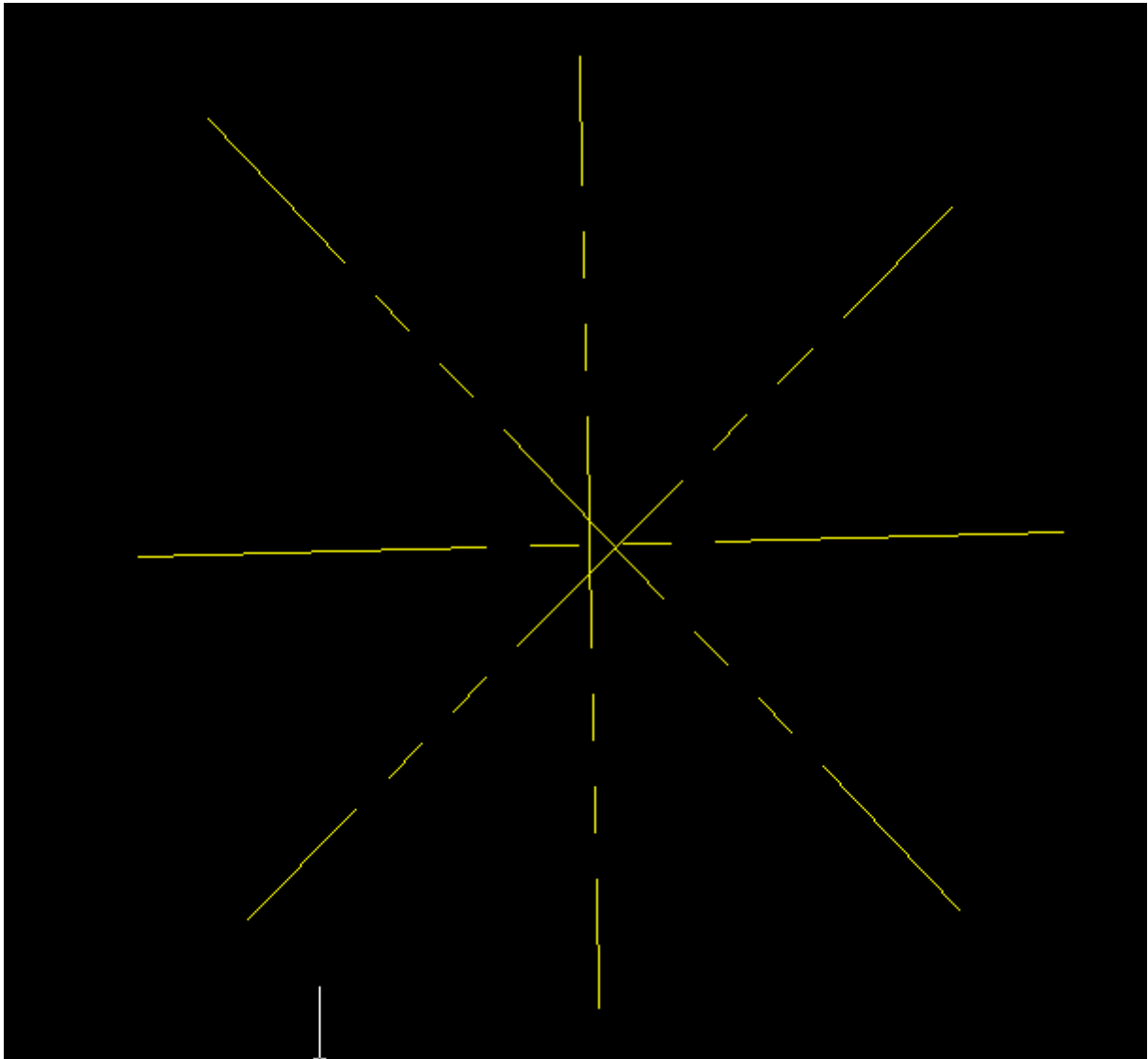


Command: LAYER

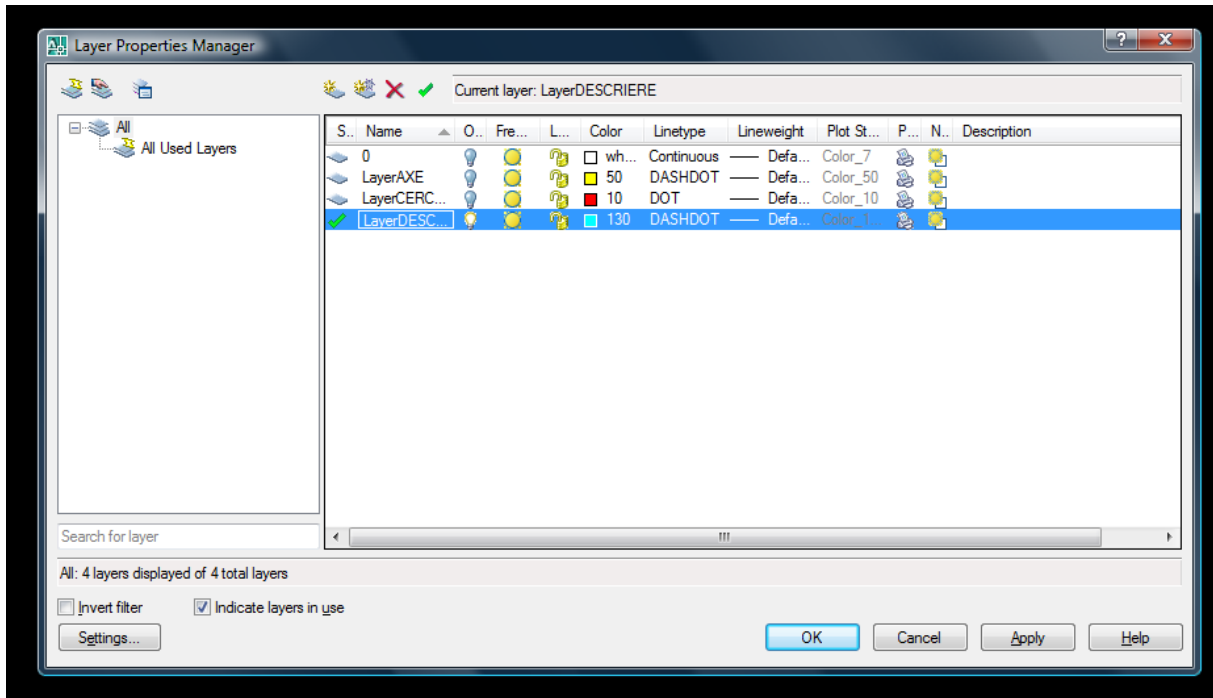
- ✓ de pe ecranul meniu, se selecteaza New Layer; se numeste Layer AXE, cu caracteristicile COLOR (yellow), LINETYPE (dashdot); activam noul layer cu click pe semnul verde; dezactivam layererele anterioare ("beculețul stins" –OFF)



- ✓ pe pagina de desen, se traseaza sistemul de axe;



- ✓ creem si activam un nou layer DESCRIERE, culoare turquoise (cod 130), style Times New Roman boldat; dezactivam layerele anterioare;

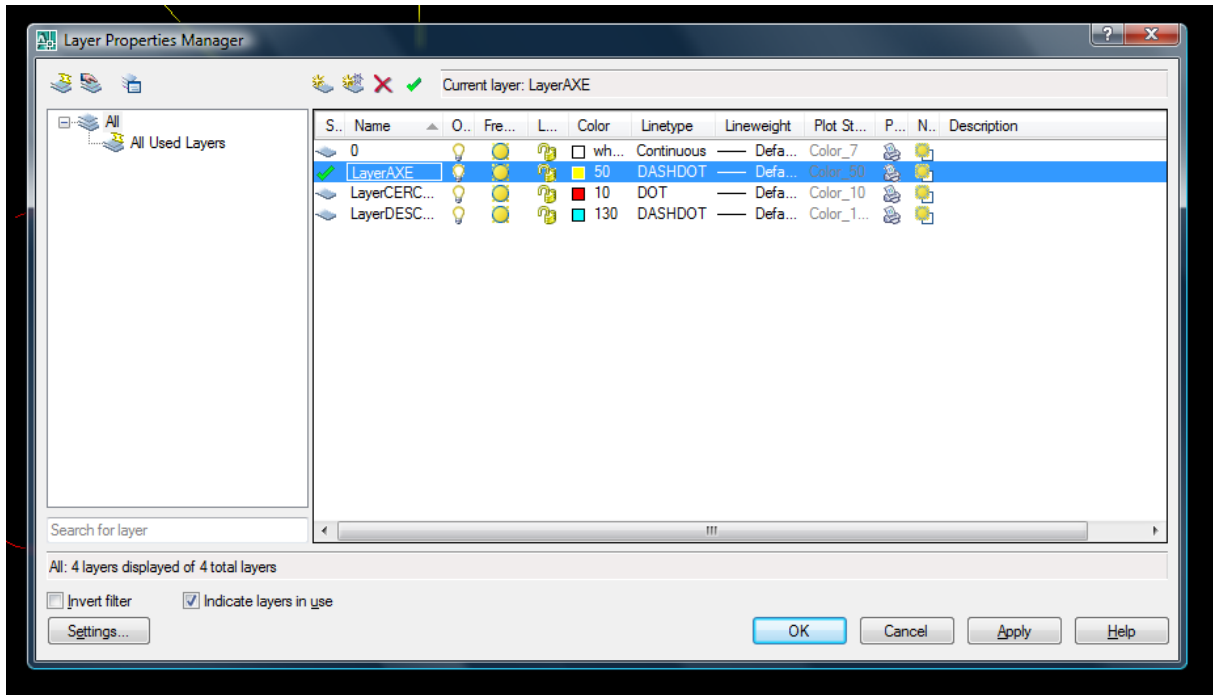


✓ pe pagina de desen, introducem textul:

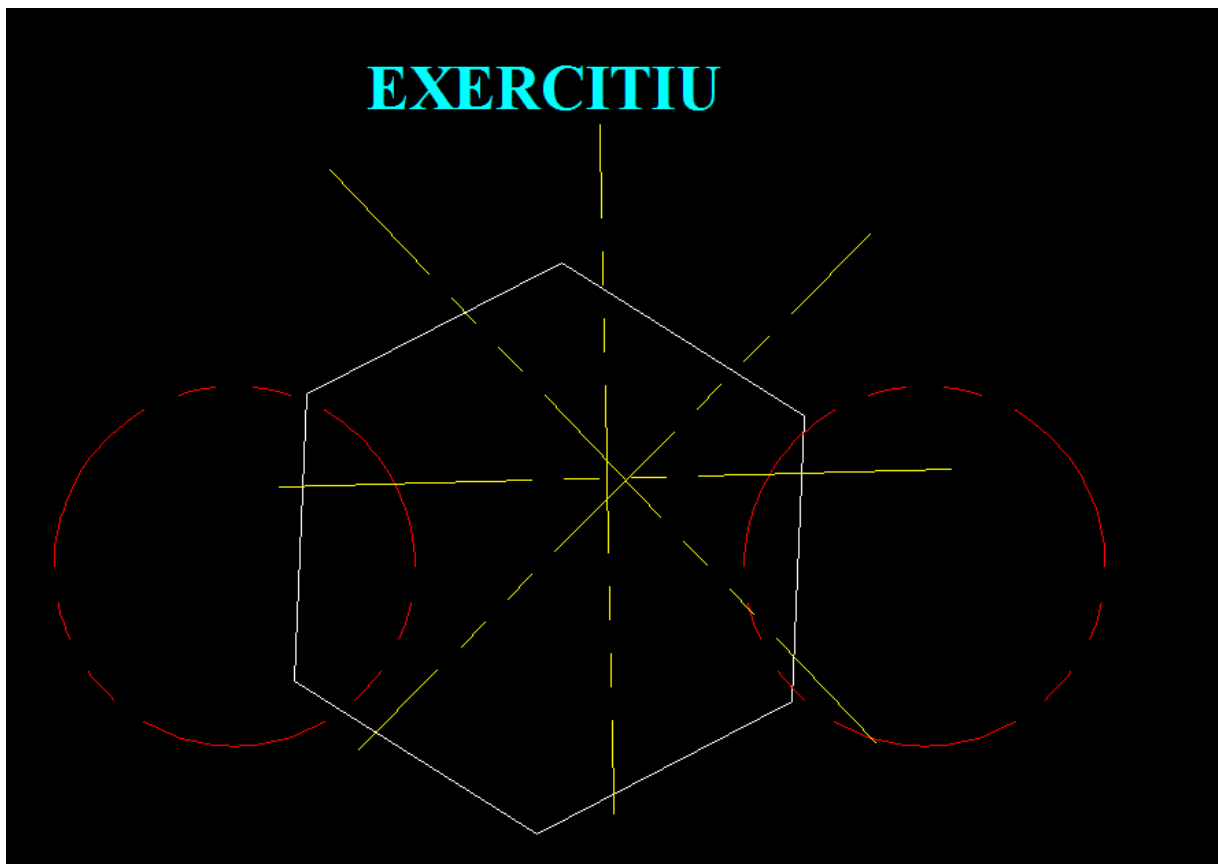
Command: TEXT



✓ activam toate layerele (optiunea ON),



✓ obținem desenul asamblat



Exercitiul I

Sa se deseneze ansamblul:

Line: 40,60→@100,0→@0,80→@-100,0→c

Circle: 70,100→radius = 15

Circle: 100,100→radius = 10

Axe: line: 55,100→85,100; line: 70,85→70,115

Line: 90,100→110,100; line: 100,90→100,110

TEXT: placa; gaura strapunsa

Utilizati layere succesive, conform tabelului:

Nume layer	Tip de linie	Culoare
PIESA	CONTINUOUS	WHITE
AXE	DASHDOT	YELLOW
TEXT	CONTINUOUS	Cod 130

Exercitiu II

Sa se realizeze urmatorul desen:

Format de desen A4

Limits: 0,0→297,210: zoom→a

Ucs: n→80,100

Pline:0,0→w(grosime) →1,1→<endpoint> 120,0→<endpoint> 120,60

<endpoint> 0,60→c

Donut: → diametrul interior 19→ diametrul exterior 20→centru 20,40

Ucs: n→50,20

Ucs: z→rotatie cu un unghi de 30⁰

Pline:0,10→a (arc) →s (second point) →-10,0→<endpoint> 0,-10→l(grosime
implicita l) →@40,0→a (arc) →@0,20→l→@-40,0

Se va utiliza procedeul layerelor, conform tabelului:

Nume layer	Tip de linie	Culoare
CONTUR	CONTINUOUS	WHITE
COMPONENTE	DASHDOT	YELLOW