

**PROIECT:**

**AUTOMAT CARE AFIȘEAZĂ TEMPERATURA, ORA, DATA**

MATERIA: PROIECTAREA SISTEMELOR NUMERICE

STUDENT: ALEXA ANDREI-ȘTEFAN

Grupa 30215, an I, seria A

PROFESOR COORDONATOR: DIANA IRENA POP

Cuprins

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**1.SPECIFICAȚIA PROIECTULUI**

Să se proiecteze un automat care măsoară temperatura ambiantă şi afişează în mod ciclic temperatura măsurată (pozitivă sau negativă), ora curentă (oră, minut) şi data curentă (zi, lună). Afişoarele utilizate vor fi de tipul 7 segmente.

**Afișoare de tipul 7 segmente**

O modalitate de a reprezenta numere în sisteme electronice. Este format din șapte segmente care pot fi activate sau dezactivate individual. Fiecare segment are forma unei linii scurte. Se poate compara cu scrierea de numere cu ajutorul bețelor de chibrit.

Fiecare dintre segmentele care formează afișare sunt numite a, b​​, c, d, e, f și g sunt asamblate astfel încât să permită a activa fiecare segment separat, astfel obținând orice cifră.

Display-urile cu șapte segmente sunt de două tipuri: *anod comun* și *catod comun*.

* Pentru tipul *anod comun*, tot circuitul de tip anod sau segmente sunt conectate intern la un pin comun pentru a fi conectat la potențialul pozitiv (nivel "1"). Aprinderea individuală a fiecărui segment este realizată prin aplicarea unui potențial negativ (nivel "0") pentru pinul corespunzător printr-o rezistență care limitează fluxul de curent.
* La tipul *catod comun*, toți catozii de [LED](https://ro.wikipedia.org/wiki/LED)-uri sau segmente sunt unite intern pentru o dată comună pentru a fi conectați la potențialul negativ (nivel "0"). Aprinderea individuală a fiecărui segment se face prin aplicarea unui potențial pozitiv (nivel "1") care corespunde printr-o rezistență de limitare a fluxului de curent.

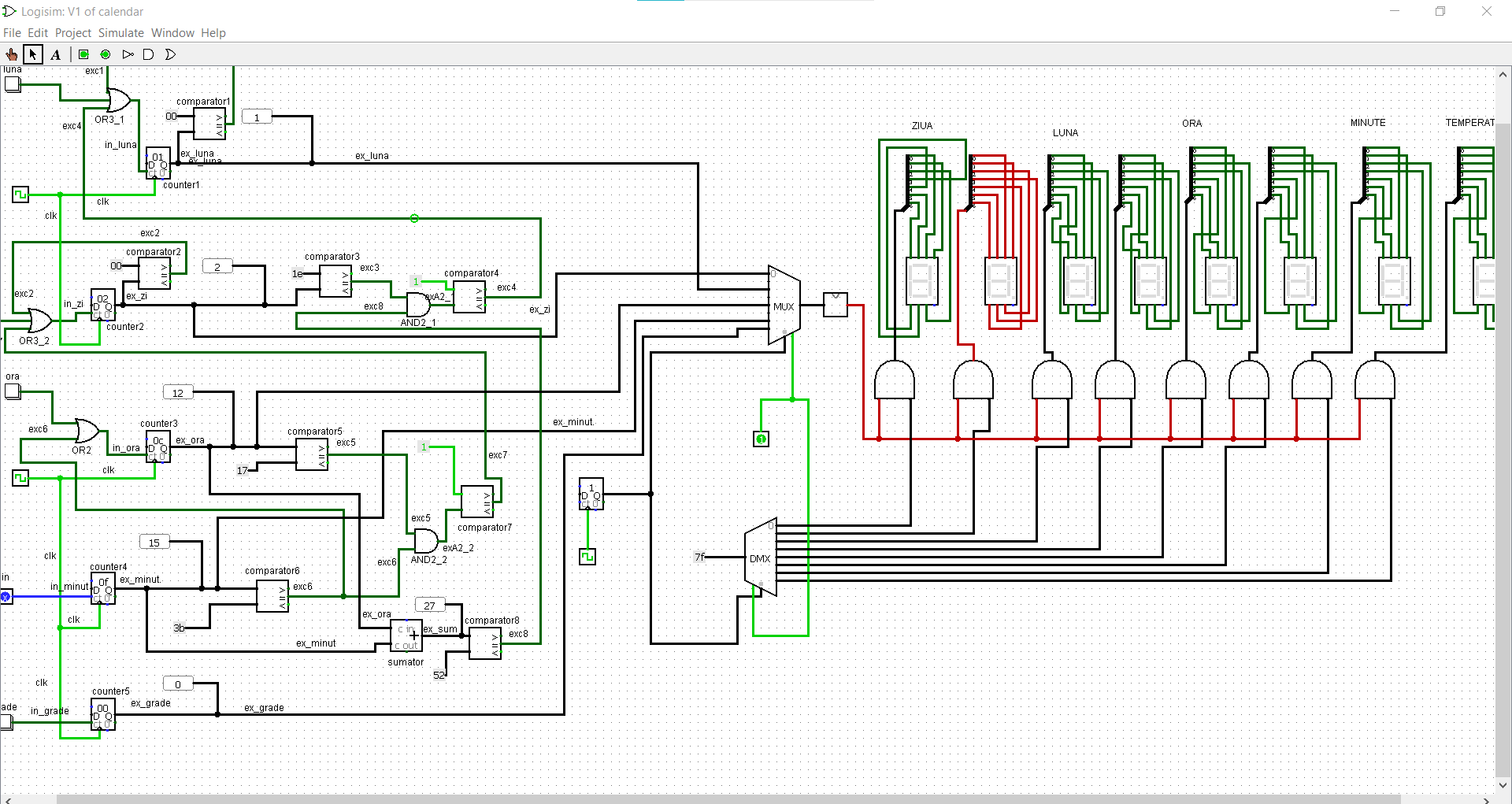
**2.UNITATEA DE EXECUȚIE ȘI UNITATEA DE COMANDĂ**

**I. UNITATEA DE EXECUTIE (UE)**

**![A picture containing text, whiteboard

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YAABLABKIEASiLCUEsAEpYEgAVLEASwASiA7hQKAACgCAooAFJQAFAAABSUAGXVn1O/j1lPPvWswdOvPTq8+cs3L6XnpPPP3M3Hr1+iU5UFY9mbU65NntPl9e2PtPqWXz6BZl18dTp64Q7satjn0wBfPDTk1NYyiwAiwya8urbF78aLPGT6cMfqe6aOXHN1jAFBIsAEsAAEsAAAIBLAAFgEsQFBIACLACBe4CgAUlAABZYCqAABQAAAFJQAFJz6+U4+bz6I3Y7NEz98uc1pZl15TVy65jxy4/T6T5+3n6jSOWnj2TO86ts2jhi1Pqpx53uy6hKjJPV6zTnnOM/0cuuvY5Vj2ZdNJmjTM2k5dceygyya8mvbni089TPo9+zry6udzd/QSpYsQBLFAASwAABIsAIpZKiACkECEqoBKIISiCksO5VAAUAAgWpQAogKoAAABQAAAoSjJo4adzF59tz377XnQzWXVl1NWTXDlk98eud/U4aoWUTLpzatPmadHjU6Pm/SzSsoDLqy6tPPzvqZ9S+/lfTrqOVZNeXTTh3ZbM/XX5rNtTFssjLqy6tPGTdj1Oly9a1l5WBQAEoiwiiLAAEgAAlSwBIsAIsEsUBKSACosgCAA7hQpQAAUgAWgACgAAolAAIFoAADIvTpOknPLxr4aCKymbVl001kjnuxe+k1jlQAMurLq0+fx+hy6SbPlfTy9DnUpcnXnp3nx455dPodfPrnUqWZdWbU0c+iPn7Muvc949PrNoyy6OHbb1m0zLLx28eudN4d+WgiAABUogEpIAFSwBAVLAJEsUBLKCRLACLABLBKqLIA7i1ZQABZQAIUpZYCggKWUAAAKAAABTJqzadTI18qy9eV6Z7+3jnrtw7eI65NHmu3PP4s8/R+P23PpPnbeWugyzaeHTTj42fP3O3rqy9jFAy6c/fUz6HzNNOz530ZQwnDRxr3fHQzaQCIDP08etzrx7eM3LfN6zV6mfldIgCLFAAgAEpIIC1LEBUpIIAgEsCy0JEsAEsEogEogO9ltAFIoAAoAKAAAIoABalAAAUioCsunP31PHDR0Hn0yx7M+jR49+I59+HuvPF03Pfv5/0srKxYpeU65tTTi24rPHvZQ5XN6COPrz61M2v0UMgV49+bOPfPoCyAEoz+rz3NErFye+fbpPHnXyzZ149oCAEsAVLEAAixQEogkASqgiKIAlIBLAACAgAEsO9LQFlAABQACiAAFAKAWUAAWUAAA4dPF1OoyBQHPpysnn31oMvl/UNKMULJm05tTTL5zcfj3u6z5/jf5sz6urnrjPUs7DFSiKJLDLrx7NQM2AA8cNOXc1DF8ewASiAAAiiAiwsAFgASCCxQRKIBLCLKCAWBAIsIsAAO4tAWUAFiUoBSAoBQAAoABSUAAgKye9GHc0+OPPU29Z650IhnNHHx43NPtwzdAyBQQKZdGbU1sW2WUiT0JQ5+LNzuz6MUACLDFtxbdwMWAAYtuHc20xYogAAiKqAAgAIAIQAoISrYJAWBEogEsAIsoISwAiwSjuW0AABSABaAFiWWgBSUAAFlABTzz7fM1NWj4frrPtTh043F079tyjnQAMWX6+DtnZl87s2jnQAMfvTl3PXDRm3O2o5aCAJi3NPl9uHTtjX2OGwgDn7mLT165TrnZ0OGgIuY0YduHc09vn/AEIDNiwACApLACAAiiAiogAAEsAWBAEsEogpLIASiASwA7ltAAWUAFAgBQCgFIAAoAAAHxd3LvnZ14aOV8ctAy+disV2DG2DHdYyZvp+dTJ26Q8vcl8+evqM81jG2E+R3+g0yzWzcl1UxtgxXWMV2LMk2IxNqsl1eI5OnmvnbfPnpNrFed2MkjZ44ejNt5/O6TZs4dMX28+sUABLABKiCoqIsAEogEogAEsAIsAEsAEogpLIAgEogNAUAqgBYAAKAAFAACygAAoCpn08rOenLpKJQAgpIWkIFIoCkqIoigAAKiyAoAAAABKJKPE6K4+dAzNKsc2DE2yuXbBvgTIIASwASwACksAIsgBLABLABLAABASwAgAIDQFWKoAFlgACgAFAAFlAAAFlAHPp5sy7MO7QMWgAAAAAABAUEAAAAACksCiAAAASwAAASwAxbcW3QMoIASwASiAASwAAgAIsAEsAIABAAiyoIAgNAUsKlFlAAFlAAFlABQAAUAAAS+bPnfT+N9nrA46WUAAAAAABFlAIolAAgACkolISiCggKAASwACIKya8mvUDNgAhLKAAggAKggCLACAAQAEogEsURApLIAgNAWpQBZQBZQAABQAWUAAUAAAAr4n2/jfX7Y9U4bAFIoiwBClikiiUAAAAABAAAKAiyAAoICkoiyAEsrLqy6tQM1KiAAAgoCCAEsAEsAAIABAASwSwAgEqoISw0BVlAFBYKlAFAAAUAAKAAAABa+Vuy9u2NY47CFAAAAECggAAAAAACKIoiqghKqKiKqAACIogEqs3fj11PQzQiLAKAggKiyAEsFgAiwAiwAgAEACAAgEsEsNBVAFAFlABSUABQAAUAAAWUSiUrF514O2PpjjpZZQAAAQAAAUiyggAAAAAgUEKACEAsoAAIgArj6edTqMUACAAgAEogpKiUIBAAQAIogIogIsAIBLKSyNFFFABQAAUAAAoAFAAABZQAKfK+r8zpn6Y51RQgAAKCQAAAAAAKCAoICgiKIAKAQAAAJYgK88e/DU7jNCAIsAAIACAAAgIACLAACLKCIBLACASyksNIlWUAoAAKAAAoAAoABQAAAB836Xzus+iXmCUAAEAACgAAgAogoAAIAACkoiyAEqoogAgCCpn0ZtTSMUCUEsAAEsAIsAAHn1CLABLAABLACLAKgIBKJLDSJVlAKAACgAFAAFlAAAKAAABj2cNzp0z6IDNCgAgEFoBLIALAWgIoSogoAAAABAAASwAAEgKZdWXU1SzFAASwAASwASwAASwAgBAABAAgAqAgEsEo0CUoAoAKAACgAKAAACgACgAnPrz1M+z5/0NA50AqoqSUAAEsBaiolKlAAIQAAAoIAiyggBLKCAAIKZtObU0yzNCAEogAAIAQAASwASwAgAIsAEsBKAiwSwA0CWgAqUAoABQBYFAAAUAAAqUAc+njUwfS+V9XcDloCoKEAACggKAlIAAQAAAAAAEsAAAqCAAEsGbTl3NSXNggABAASwAASwAAkoQAIsAEsAEsEqoBAAgNAlqUAWC2UAAUAAKABZQAAABQACz5X1fk/W6wONBRQEAAAAAAAAARSKIAAAAACAAAgCwAQpl1ZdTTYzQgACLABLAABKIACAiwASiLACASwCoCAAgNAlWUAWUAoFgoAFAABQAFACUSgAK+N9n432e2A46UgAAAAAAAAABKJQSwCggAAACAAAAQAIBl1ZdzSM0IAASwASiAASwLACASwACosBAISwCoBLACA0CVZQBZQCgAWCgAoAAKACwBQAAK+R9b5n0OuOljjqgAAAAAAAEKAABKBKCAAAJQEAAAAIABLBl1ZdzTTNggAQsAAQAAgAAIBLABLKCAIAKkogIBLADQJVlAFlFlAAFlAAFlAAKAABZQAAK+fr4dOmdFl50IAAAAAAAEKAAACAAAAACkqEsAAAIABAZdWXc1EzQgBLAABLCwAEsABAACASqggKghLAQCosAIDQJRSUFlAKlAKAABQAAoAABQAALM098uk2WXlQAAAAAAAAACCyiWAABKJSggCAAAAAgAIBl1ZdzVDNCAAIsAEAABAASyggQASwAAgEspLABLACA0CVZQBZQCgAWUAWUAAFJQAAoAAAs559WTbcOYAAAAAAAAABKJQiwAAAAAAgAAACAABLBk15dzSXKCUABAAllEsAIsBSQAqCAIAACLKSyEsoBLBKIDQJaABZQBYKBZQACgAoAABQAAAEmLdg6N9OYAAABYAAAAAAAIolBKIAAABLAAABAAASwZdWXc0lyglASwAAELAAAQEsAIsAqLABLABLBLABLACA0CVYKBZQCgAWUAWUJQCoKABZQAACwRg3/ADuk+kjFqIqUAAAAAAAAAASwAWAAAABLAAACLABLAsGbTm3NKMglEAAAEsAAAIsBACLAKSwCEsApLCAAgEsgDQFWCgqUAWUAAUAKlAFgoAAKAAAEfN+l8rrPqjnQhYKAAABYKgAAAAAgAAAAABAAACLAABLBw7ctT3659ICUCAAASiAAASwQAEsAIAKSyApLCAAQEsAO9llAoBQACpQCgAWCgWCgAAqCgABHyfrfI7Z+uOWghYKlAAAAAAAAAAEAAAAAAQAAASiASwAnPrz1PPXj2AzQEABKEAAAQAgoISygIIEoAIgpLACASwENKWUBZQCpQACgqUAAWUWACgAAAoAHx/sfG74+yl46CFgqUAAAAAAEKACAAAAIKgAAAELAAEAAHj35s5ds+igzUogAIAAABAAgBCwBKCIKACIspLAQAgEsNFJQKAAoAAoFgoAAKAACpQABZQB8f7HyO2PrF5aCAKAAAAAAQFAAAIAACAAAAASwAAAgAILM2nNp0DFgAAIsAAEAAQASygEsAIAICksIBAAQAO5ZQKlAFlAAKACpQBZQAABZQABZQB8r6vzuufojnQgACgAAAEKAQoAAEABLACyiAAAQLAAAgAIKzacurUDFgAAEsAAIABKIsEsApAAQgABAQqAAghA0WVQKABYKAUAAWCgWCpQABZQAAUAYN+Hc3JcggCgEAFAQAAAqUAQAABAAKCAEogAABAAKgMurNp1AxYAABAAEAApLIAgAEACKIACCoCAAiwgNAloFlAFgqUAqCgWCgAAoAFgoAAKCZNmTc79OXTKpYAAsABYAAAAAAAAAIKCAAAAIKCBAABLAKzacunUqMUAQAAASwAAQAEACCkIAAEBBLKCAIKQNAlWUWUAAWUAAoAKlAFgqCgAqUAABGPZk20e+fTJYigAAsAAAAAAAAABAAAAAELAChIsAABLAKy6curUDFASiAA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**II. UNITATEA DE COMANDĂ (UC)**



**3. ETAPELE DE PROIECTARE**

**Organigrama automatului:**

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDqRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAgAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA3OjA0IDIwOjUwOjU2AAAB6hwABwAACAwAAAjUAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Avem câte un buton pentru fiecare componenta, cu ajutorul căruia putem inițializa manual automatul. Există însă butonul „min” care va face toată treaba de unul singur și anume va începe numerotarea minutelor, iar când acestea vor ajunge la 59 automatul v-a detecta starea cu ajutorul comparatoarelor folosite si va incrementa numărul de ore cu +1.
* Pentru aceste numerotări sunt folosite numărătoare pe 8 biți cu diferite stagii de oprire in funcție de numărul maxim posibil .
* Cu ajutorul sumatorului se va detecta starea in care numărul de minute adunat cu numărul de ore este maxim. Detectând valoarea maximă și anume ora 23:59, va determina schimbarea zilei incrementând ziua cu +1.
* Numărul de zile a fost ales ca fiind 30 pentru toate cele 12 luni.
* Numărul lunilor este incrementat prin aceeași modalitate ca si cel al zilelor si orelor, când zilele ajung la 30, iar ora trece de 23:59 numărul de luni se va incrementa +1.



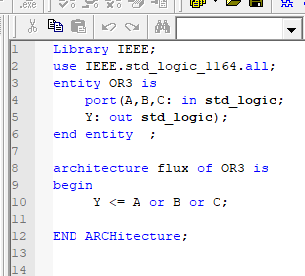
Figura 1. Reprezentarea butonului „min” in stadiul dezactivat



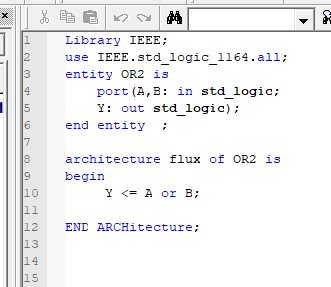
Figura 2. Reprezentarea butonului „min” in stadiul activat

**4. LISTA COMPONENTELOR FOLOSITE**

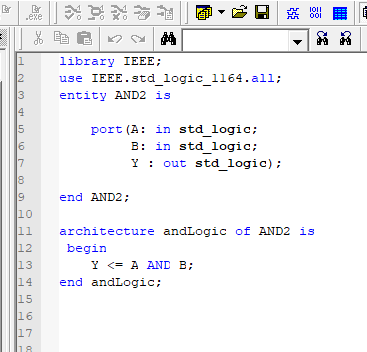
**I. Poartă SAU cu 3 intrări.**



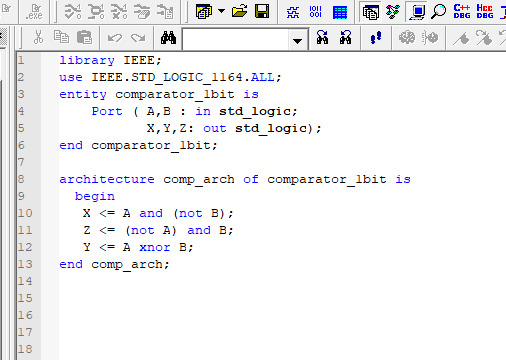
**II. Poartă SAU cu 2 intrări.**



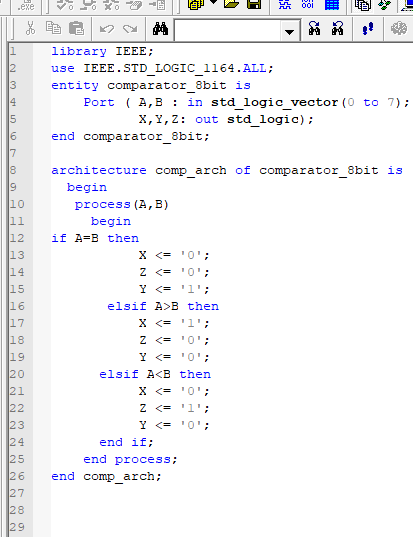
**III. Poartă ȘI cu 2 intrări.**

****

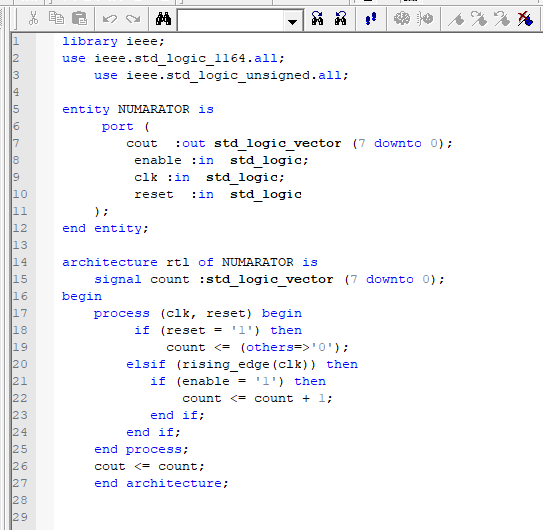
**IV. Comparator pe 1 bit.**

****

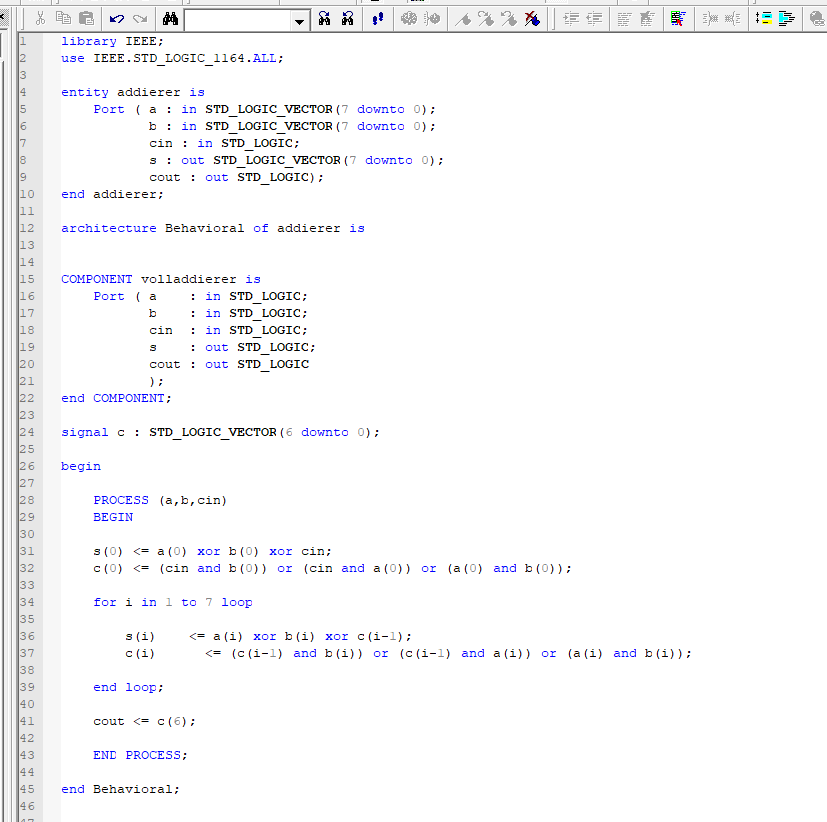
**V. Comparator pe 8 biți.**

****

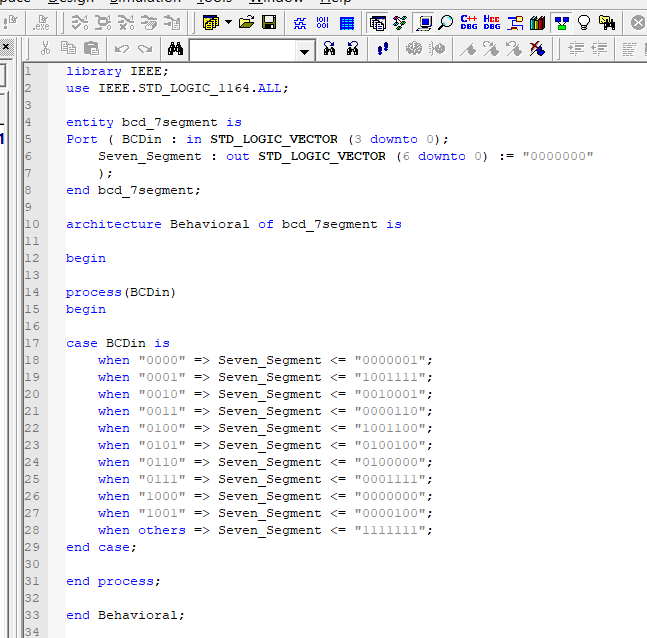
**VI. Numarător pe 8 biți.**

****

**VII. Sumator pe 8 biți.**

****

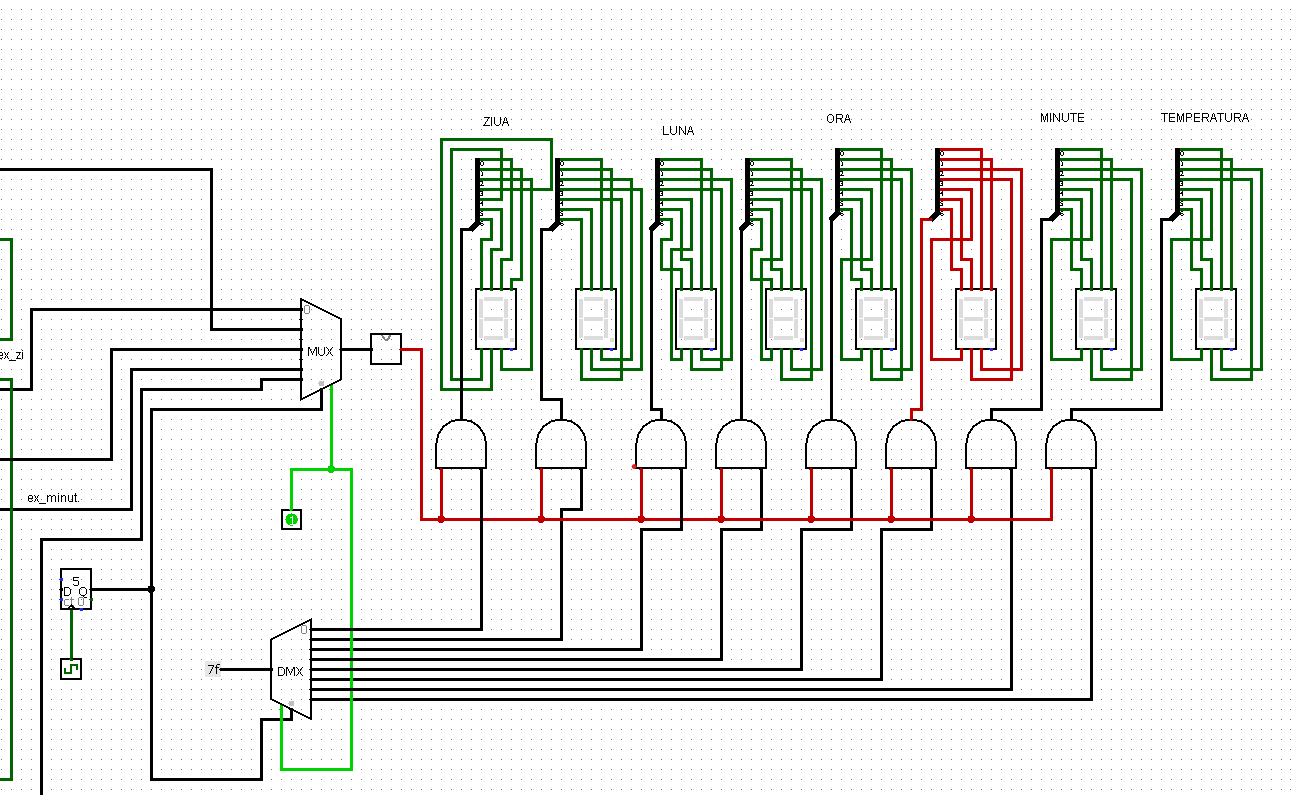
**VIII. Decodificator BCD-7segmente (folosit pentru afișare)**

****

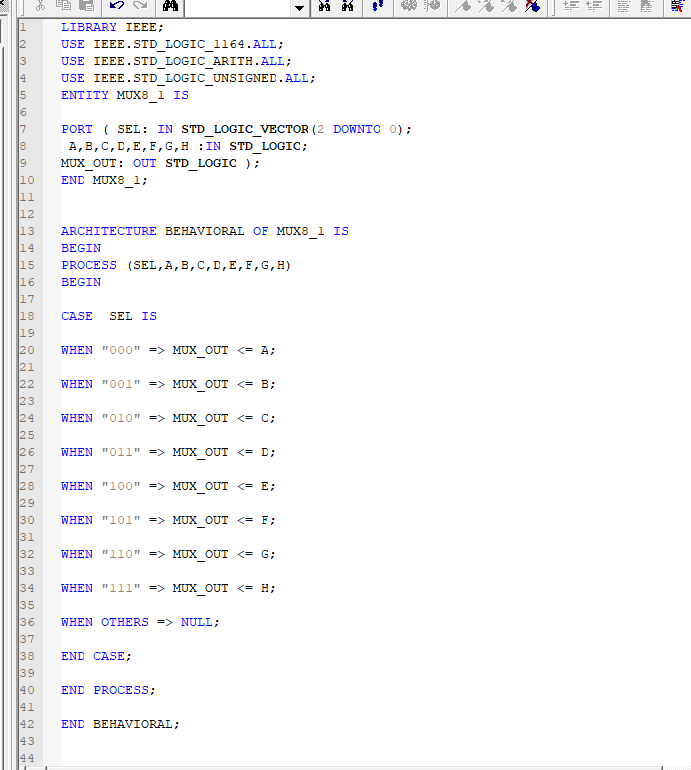
**IX. Automatul in sine (unde au fost legate pentru funcționalitate toate cele de mai sus)**

****

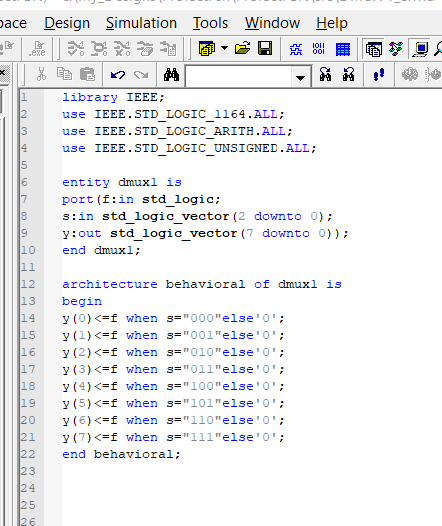
**X. Am încercat folosirea unui MUX și a unui DMUX pentru afișarea in mod ciclic.**

****

1. **MUX 8:1**

****

1. **DMUX 1:8**

****

**5. Semnificația notațiilor efectuate în proiect**

* Intrări
  + luna - buton utilizat pentru a inițializa numărul de luni
  + zi - buton utilizat pentru a inițializa numărul de zile
  + ora - buton utilizat pentru a inițializa numărul de ore
  + min - buton utilizat pentru a inițializa numărul de minute
  + grade - buton utilizat pentru a inițializa numărul de grade
* Ieșiri
  + ex\_luna – numărul curent de luni
  + ex\_zi - numărul curent de zile
  + ex\_ora - numărul curent de ore
  + ex\_minut - numărul curent de minute
  + ex\_grade - numărul curent de grade
  + ex\_dcd1 pana la ex\_dcd8 – ieșiri afișare 7 segmente

**6. Justificarea soluției alese**

Soluția aleasă este ușor de înțeles de către utilizator deoarece utilizez componente simple și nu foarte costisitoare, cum ar fi: porți logice sau/și, comparatoare, numărătoare, multiplexor, demultiplexor, sumator și decodificatoare. Automatul este ușor de folosit; utilizatorul poate inițializa manual toate elementele: grade, minut, ora, ziua, luna, sau poate să pornească automatul care va funcționa în mod automat prin butonul “min”.

**7. Instrucțiuni de utilizare și întreținere**

Automatul funcționează în programul Logisim și în programul Active-Hdl. În Active-Hdl se simulează programul, iar în Logisim se folosesc butoanele denumite specific și switch-ul pentru oră. Clock-ul se activează din butonul ”Simulate” iar apoi se face click pe butonul ”Ticks Enabled”; după aceea acesta va funcționa în mod automat.

**8. Posibilități de dezvoltare ulterioare**

În viitor automatul ar putea afișa mai multe elemente, de exemplu: secundele, un mesaj, eventual se va putea implementa un sistem de tip ”ceas deșteptător”.