	Tenm-14/09/5 04.
	Poroblem Stadement Whomite a PROLDER foor menu Doniver foor member, concadinaction and Dulite and Permedaction. functions.
	Theory: In Posolog a menu-driver Posegoeurs cour. 50 simplimented uning a Combinantion of facts a ruley and. Posediantes flus general any g how you can for 5 toursected a menu-drawar foregram in prolog:
1	Dutice the menu option: Circuite four to reported Each menu option, the facts structured reported the options any associated parameters on argument.
	Implement ment handling sules: - Morife sules that dufine the behavior for new option - Land sure should have a land that marketes the menu option of a Gody that Specifies he audion to be purformed
3.	Implement the main menu loop: - Worite a pondicule that display the men option 4 gonompts the und food injut. - Repeate the main menu loop lendil to the und. Choose to Exit the pongorum.

```
PROGRAM.
 · J. Helpur predicates.
Concadenate ( [], L, L).
 Concadenate (HIT, L, [HIR]): - (oncate (T, L, R).
 odd- Glement (x, L, [x 1L]).
Lulete- Edensand (-,[],[]).
deslante_ Element (X, [XIT], T).
dedute-Element (X, [HIT], [HIR]):- X1=L1,
                         Larleit - Element (X, T. R).
Permude ([].[]).
parmete ([HIT], R):- promete (T,X), Sedect (H,R,X).
list-member (x, [x1-]).
list-member (x, [-1T]):- fixt-member (x,T).
of mense - driver funcación
menu:
    worke ('MENU'), nl.
    verite ('1, porcaderate hist'), ol,
   won'te C'2, Add Edement'), nol
won'te C'3, Deslute Edement'), nol,
won'te C'U, Permete fist'), nol,
   uvije ('5, (huk mauskos'), hol,
   write ('Embor the number of your choice:')
evenite ('Embor the number of your choice:')
evenite ('Lovice)
```

```
Process (Choire).
Pororeus (1):-
  ceviste ('Endro Gont list: 1),
   orcad (11),
  write ( 'Enter Sewad list! ),
  Dead (L2),
  Concadenate (L1, L2, Fest)
  write ('(brutenanted firt:'))
   unite (Result), 11.
   mai mend.
Poro1055 (2):-
    wrije ('Ender an Edement: ')
    gread (x),
    unite ('Embor a list: '),
    Gread (L),
    add. Erlousent (X, L, Fesult),
    worke (! List after adding Element: '), unite (fesult), ol,
    musu.
Peroress (3):-
    Livite ( 'Emilion den Element: 1),
    read (x),
    monite ('Embro a lusit:'),
    Dead (L),
    Lordat - Element (X, L, Result),
    while ('List after deliting Eslavent:'),
    won'te ( ferult), n1,
     menu.
```

Luaire (1 Emoleon a dusid: 1), Ponoress(4):findall (X, Promute (L, X), Desults),
worke ('Pasmutantions: '), nl,
maplifint (maitaln, Besults), mena. woite ("LIST MENNBER"), nl. Process (5):gead (X), nead (L), list membra (X,L), manu. write (1457 MESMBER!), nl. Poloress (6):rend (X), Dead (L), list member (X, L), write l'Goodbye!'), n1. main: mend.

out put MENU 1. Concadenade 2. Add Element 3. Dolette Element 4. Permente list 3. Check mounted 6. Quit Enden the number of your choice: I Emotion the Good lint: [1,2,3,4,5) Enden the Sound list: [5,6,7,8] Concartioned list: [1,2,3,4,5,6,7,8]. Enter the first number of your Choice: 2.

Enter an Edenual: 2.

Enter an alist: 4,5,6.

List offer adding Element: [4,5,6,2] Ender the number of your Choice: 3 Endron a list: U,5,6,2 Dist orthon Laboration Edoment: [U,6,2]