**Experiment - 6**

**Aim:**

**WAP to study Using cut, not, fail predicates in Prolog.**

**Procedure:**

Write a prolog program having facts in clauses section for predicate student (studentname, branchname).Use cut !, fail, not predicates to-

* Display list of all students
* Display list of students for given specific branch.
* Display list of students excluding specific branch

**Solution:-**

Prolog Code:

domains

name=symbol

branch=symbol

choice=integer

predicates

student(name,branch)

menu(integer)

start

clauses

student(aanandi,it).

student(trusha,it).

student(twiency,it).

student(priyanka,ce).

student(rahul,ce).

student(kesha,ec).

student(devanshi,ec).

student(raj,ec).

start:-

write("------------------------OPTIONS-----------------------"),nl,

write("1.Display list of all students"),nl,

write("2.Display list of students for given specific branch"),nl,

write("3.Display list of students excluding specific branch"),nl,

write("------------------------------------------------------"),nl,

write("Enter Your Choice : "),

readint(C),menu(C).

start.

menu(1):-write("List of all students"),nl,

student(S,\_),write("Name:",S),nl,fail.

menu(1):-write("Do you want to continue(y/n)? "),

readln(A),

A="y",

start.

menu(2):-write("Enter branch: "),readln(L),

student(Z,L),

write(Z),nl,fail.

menu(2):-write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

start.

menu(3):-write("Enter the branch you want to exclude: "),

readln(X),nl,

student(N,B),

not(X=B),

write("Name-",N,","),write("Branch-",B),nl,fail.

menu(3):-write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

start.

Output Screenshots:





