**Experiment - 10**

**Aim:**

**WAP for studying usage of dynamic database in prolog.**

**Procedure:**

* **Store facts of student(name, branch, semester , percentage) dynamically.**
* **Use asserta predicate to enter new data in dynamic database.**
* **Use retract predicate to delete a given data from dynamic db.**
* **Create appropriate predicate to search and display some specified students details.**
* **Create appropriate predicate to list all the students having percentage greater than some specified value.**

**Solution:-**

Prolog Code:

domains

name,branch,semester=symbol percentage=integer

database

students(name,branch,semester,percentage)

predicates

go

list(integer)

clauses

go:-

write("Enter your choice from given-"),nl,

write("1.Enter new student details."),nl,

write("2.Delete a student data."),nl,

write("3.Search and display specific student data."),nl,

write("4.List of students have greater than specific percentage."),nl,

readint(X),

list(X).

list(1):-

write("Enter the name: "),readln(N),

write("Enter the branch: "),readln(B),

write("Enter the semester: "),readln(S),

write("Enter the percentage: "),readint(P),

asserta(students(N,B,S,P)),

save("abc.txt"),nl,

write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

go.

list(2):-

write("Enter the name of student you want to delete: "),

readln(N1),

consult("abc.txt"),nl,

retract(students(N1,\_,\_,\_)),

write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

go.

list(3):-

write("Enter the name of student you want to search: "),

readln(N1),

consult("abc.txt"),nl,

students(N1,B,S,P),

write("Given student details: "),nl,

write("Branch: ",B),nl,

write("Semester: ",S),nl,

write("Percentage: ",P),nl,

write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

go.

list(4):-

write("Enter percentage: "),

readint(GP),

consult("abc.txt"),nl,

students(N,\_,\_,P),

P>GP,write(N),nl,

write("Do you want to continue(y/n) ? "),

readln(A),

A="y",

go.

Output Screenshots:







