Lab4 - WAP for using Input, Output and fail predicates in prolog.

Write program using write, writef, readint, readchar, readln, readreal predicates

• Store facts of employee name, age, job location, marital status and gender.

Display (i) list of married & unmarried employees

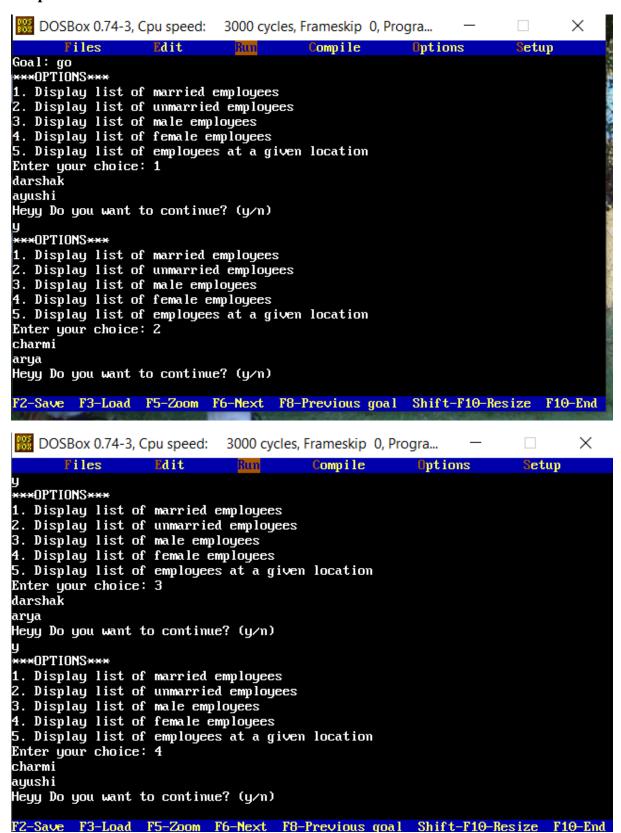
- (ii) List of male & female employees
- (iii) List of employees for given job location

Code:

```
DOSBox 0.74-3, Cpu speed:
                                                                                  X
                               3000 cycles, Frameskip 0, Progra...
                                           Compile
                                                         Options
domains
        name, status, city=symbol
predicates
         marital_status(name,status)
         male(name)
         female(name)
         location(name,city)
        rule(integer)
        continue(symbol)
clauses
        write("***OPTIONS*** \n"),
        write("1. Display list of married employees \n"),
        write("2. Display list of unmarried employees \n"),
        write("3. Display list of male employees \n"),
        write("4. Display list of female employees \n"),
        write("5. Display list of employees at a given location\n"), write("Enter your choice: "),
        readint(X),
        rule(X),
        write("Heyy Do you want to continue? (y/n) \n"),
F1-Help F2-Sa∨e F3-Load F5-Zoom F6-Next F7-Xcopy F8-Xedit F9-Compile F10-Menu
```

```
BB DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...
                                                                              Х
                                        Compile
                                                      Options
                                                                      Setup
                        D:\PROLOG\EXP4.PRO Indent
        readin(Y),
        continue(Y).
        rule(1):- marital_status(Y,married),write(Y),nl,fail.
        rule(1).
        rule(2):- marital_status(Y,unmarried),write(Y),nl,fail.
        rule(2).
        rule(3):- male(Y), write(Y), nl, fail.
        rule(3).
        rule(4):- female(Y), write(Y), nl, fail.
        rule(4).
        rule(5):- write("Enter location: "),readln(Y),location(Z,Y),write(Z),nl,
        rule(5).
        continue(y):- go.
        marital_status(darshak,married).
        marital_status(charmi,unmarried).
        marital_status(arya,unmarried).
        marital_status(ayushi,married).
        male(darshak).
        male(arya).
        female(charmi).
        female(ayushi).
        location(darshak, jammagar).
F1-Help F2-Sa∨e F3-Load F5-Zoom F6-Next F7-Xcopy F8-Xedit F9-Compile F10-Menu
        location(darshak, jammagar).
        location(charmi, surat).
        location(arya,rajkot).
        location(ayushi, jamnagar).
F1-Help F2-Save F3-Load F5-Zoom F6-Next F7-Xcopy F8-Xedit F9-Compile F10-Menu
```

Output:



```
Heyy Do you want to continue? (y/n)
 ***OPTIONS***

    Display list of married employees

Display list of unmarried employees
Display list of male employees
4. Display list of female employees
5. Display list of employees at a given location
Enter your choice: 5
Enter location: jamnagar
darshak
ayushi
Heyy Do you want to continue? (y/n)
Goal:
 F2-Save
          F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Res
Code:
domains
      name, status, city=symbol
predicates
      marital status(name, status)
      male(name)
      female(name)
      location(name,city)
      rule(integer)
      continue(symbol)
clauses
      go:-
      write("***OPTIONS*** \n"),
      write("1. Display list of married employees \n"),
      write("2. Display list of unmarried employees \n"),
      write("3. Display list of male employees \n"),
      write("4. Display list of female employees \n"),
```

write("5. Display list of employees at a given location\n"),

```
write("Enter your choice: "),
readint(X),
rule(X),
write("Heyy Do you want to continue? (y/n) \setminus n"),
readln(Y),
continue(Y).
rule(1):- marital_status(Y,married),write(Y),nl,fail.
rule(1).
rule(2):- marital_status(Y,unmarried),write(Y),nl,fail.
rule(2).
rule(3):- male(Y),write(Y),nl,fail.
rule(3).
rule(4):- female(Y),write(Y),nl,fail.
rule(4).
rule(5):- write("Enter location: "),readln(Y),location(Z,Y),write(Z),nl,fail.
rule(5).
continue(y):- go.
marital_status(darshak,married).
marital_status(charmi,unmarried).
marital_status(arya,unmarried).
marital_status(ayushi,married).
male(darshak).
male(arya).
female(charmi).
female(ayushi).
location(darshak,jamnagar).
location(charmi,surat).
location(arya,rajkot).
location(ayushi,jamnagar).
```