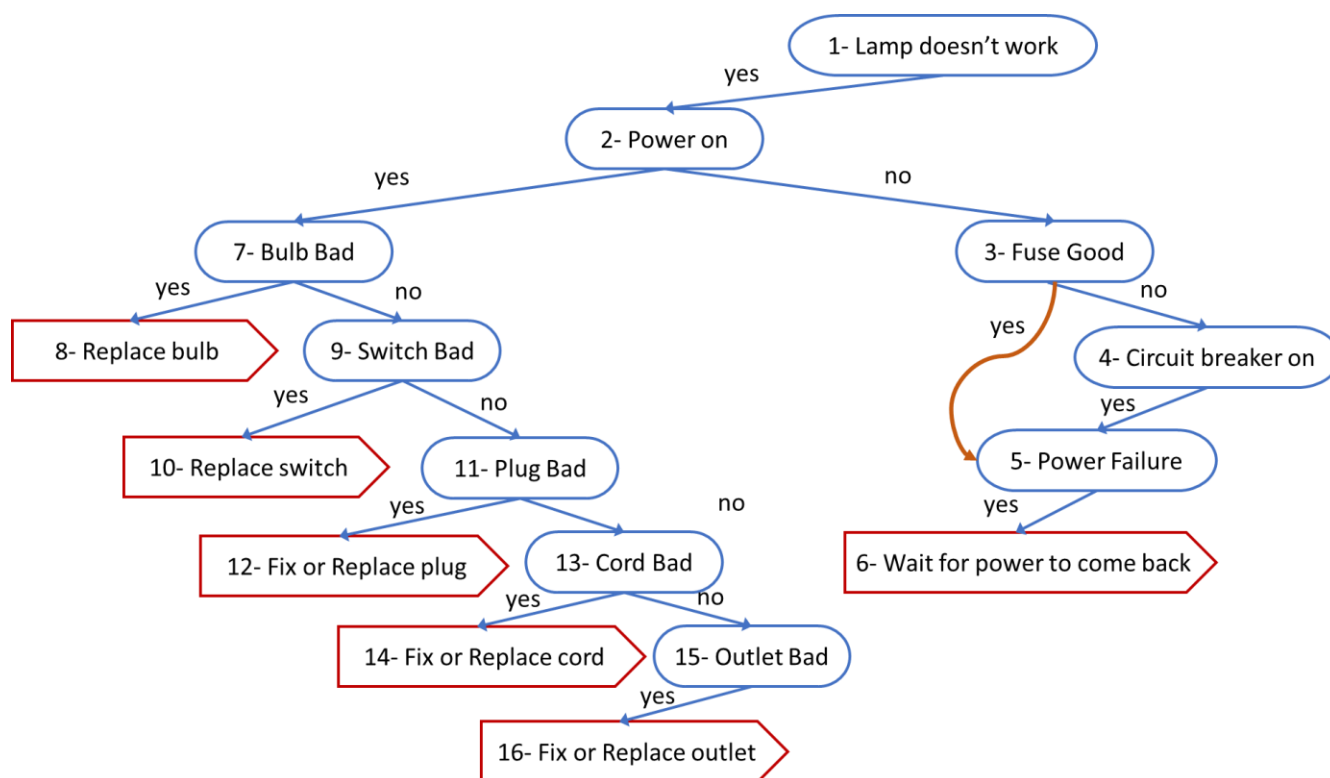


Lab #7: Lamp Repair



Code is placed into "TaskWindow.pro"

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Menu Item %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

predicates

```
onLampRepair : window::menuItemListener.
```

clauses

```
onLampRepair(_Source, _MenuTag) :-
    myLamp::run(1),
    !.
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

Code is placed in class "myLamp.cl"

predicates

```
run : (integer) multi.
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

Code is placed in class "myLamp.pro"

clauses

```
run(1) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Lamp Doesn't Work?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(2).  
  
run(1) :-  
    vpiCommonDialogs::note("Peace :"),  
    !.  
  
run(2) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Power on?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(7).  
  
run(2) :-  
    run(3).  
  
run(3) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Fuse is Good?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(5).  
  
run(3) :-  
    run(4).  
  
run(4) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Circuit Breaker on?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(5).  
  
run(5) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is there Power Failure?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(6).  
  
run(6) :-  
    vpiCommonDialogs::note("Wait for Power to come back"),  
    !.  
  
run(7) :-  
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Bulb Bad?", ["&Yes", "&No"]),  
    ANSWER = 0,  
    run(8).  
  
run(7) :-  
    run(9).  
  
run(8) :-  
    vpiCommonDialogs::note("Replace the bulb"), !.  
run(9) :-
```

```
ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Switch Bad?", ["&Yes", "&No"]),
ANSWER = 0,
run(10).

run(9) :-
    run(11).

run(10) :-
    vpiCommonDialogs::note("Replace switch"), !.

run(11) :-
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Plug Bad?", ["&Yes", "&No"]),
    ANSWER = 0,
    run(12).

run(11) :-
    run(13).

run(12) :-
    vpiCommonDialogs::note("Fix or Replace the plug"), !.

run(13) :-
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Cord Bad?", ["&Yes", "&No"]),
    ANSWER = 0,
    run(14).

run(13) :-
    run(15).

run(14) :-
    vpiCommonDialogs::note("Fix or Replace cord"), !.

run(15) :-
    ANSWER = vpiCommonDialogs::ask("Check Lamp", "Is Outlet Bad?", ["&Yes", "&No"]),
    ANSWER = 0,
    run(16).

run(16) :-
    vpiCommonDialogs::note("Fix or Replace outlet"), !.

run(_) :-
    vpiCommonDialogs::note("No Solution"), !.
```