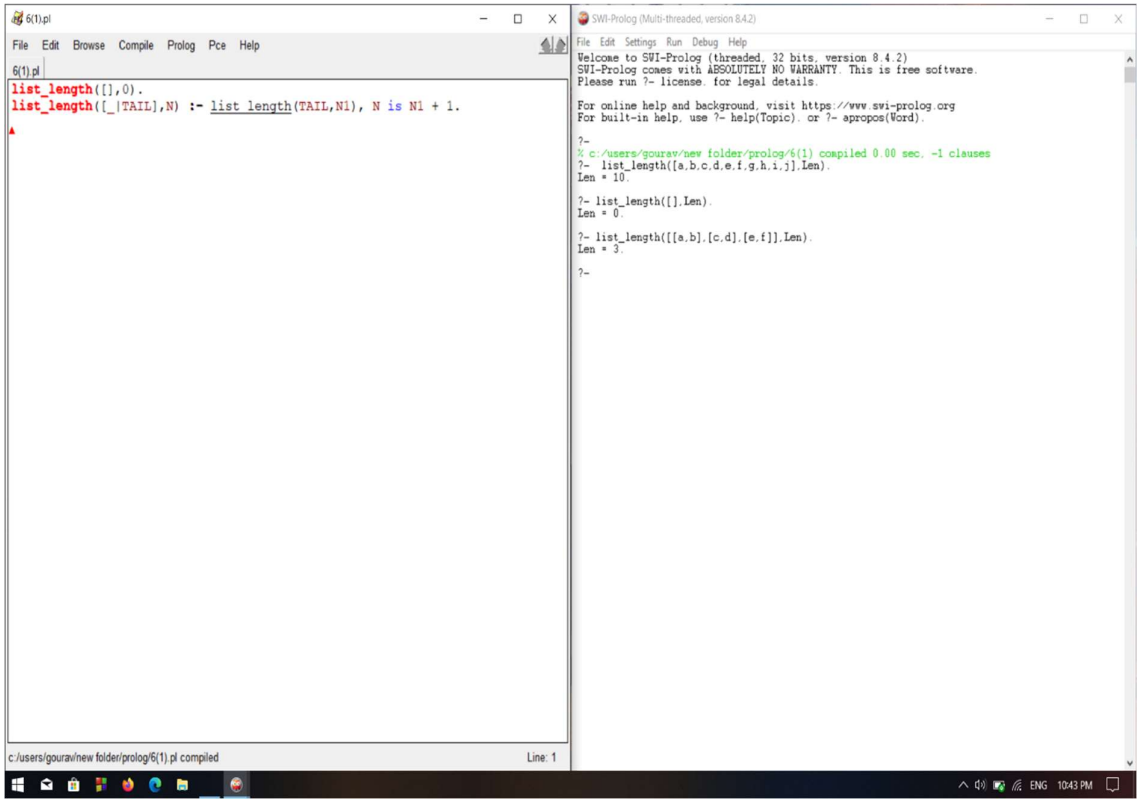
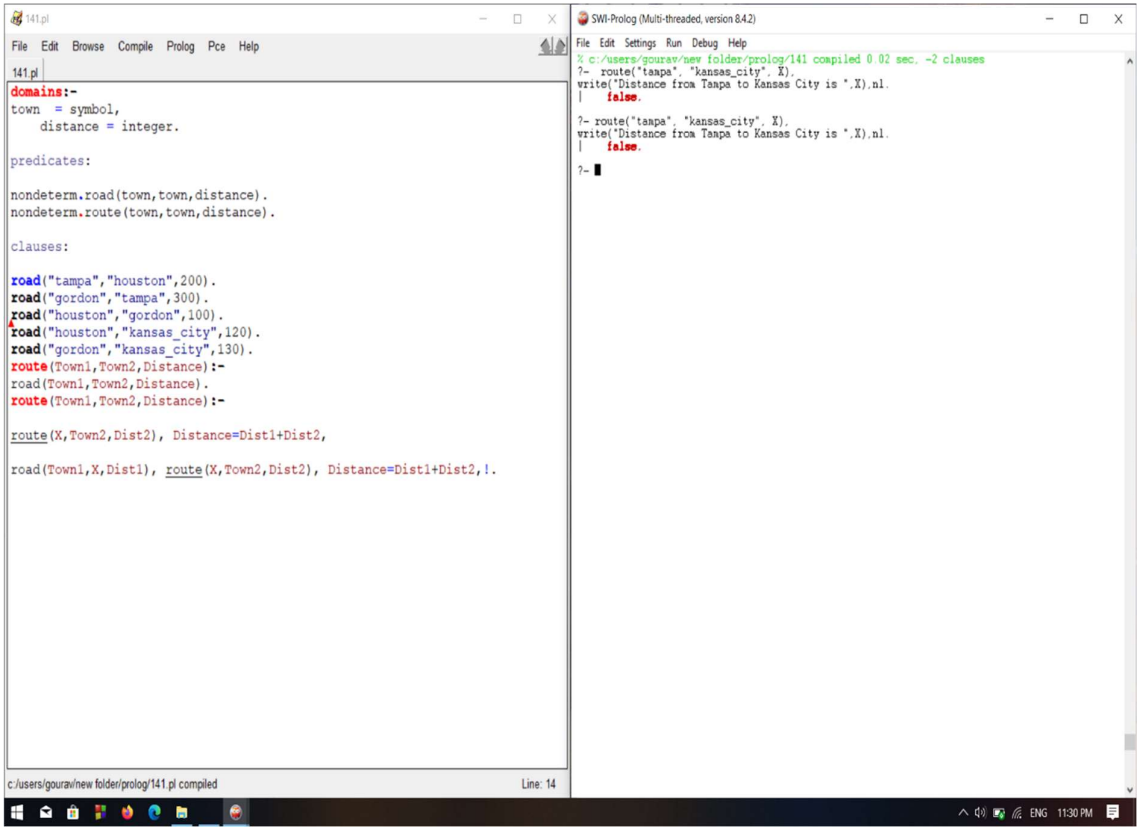
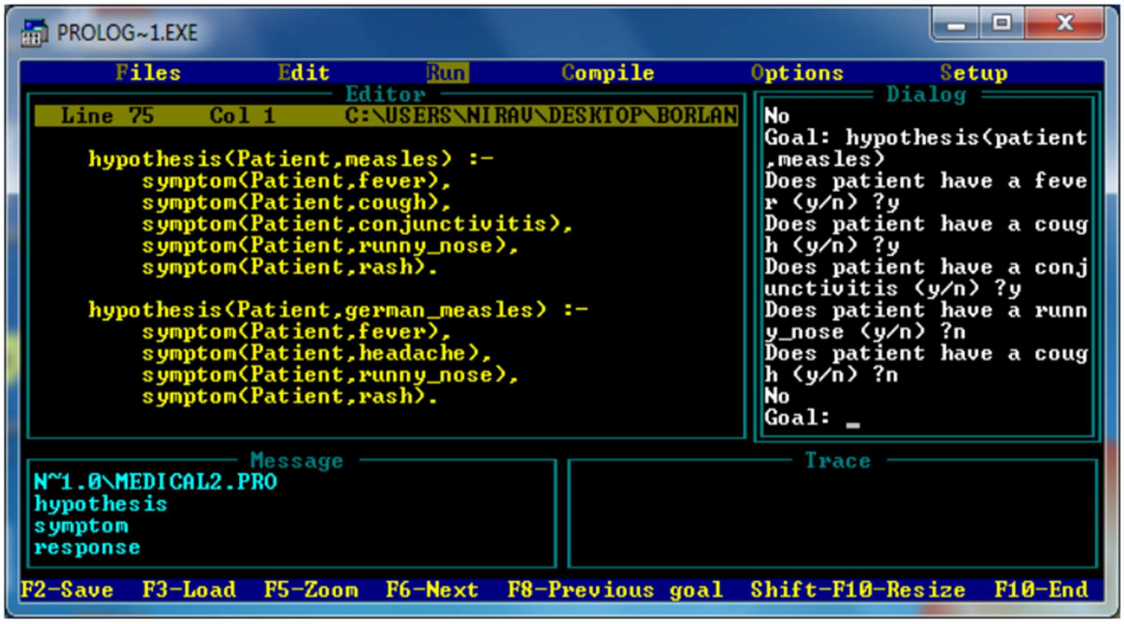
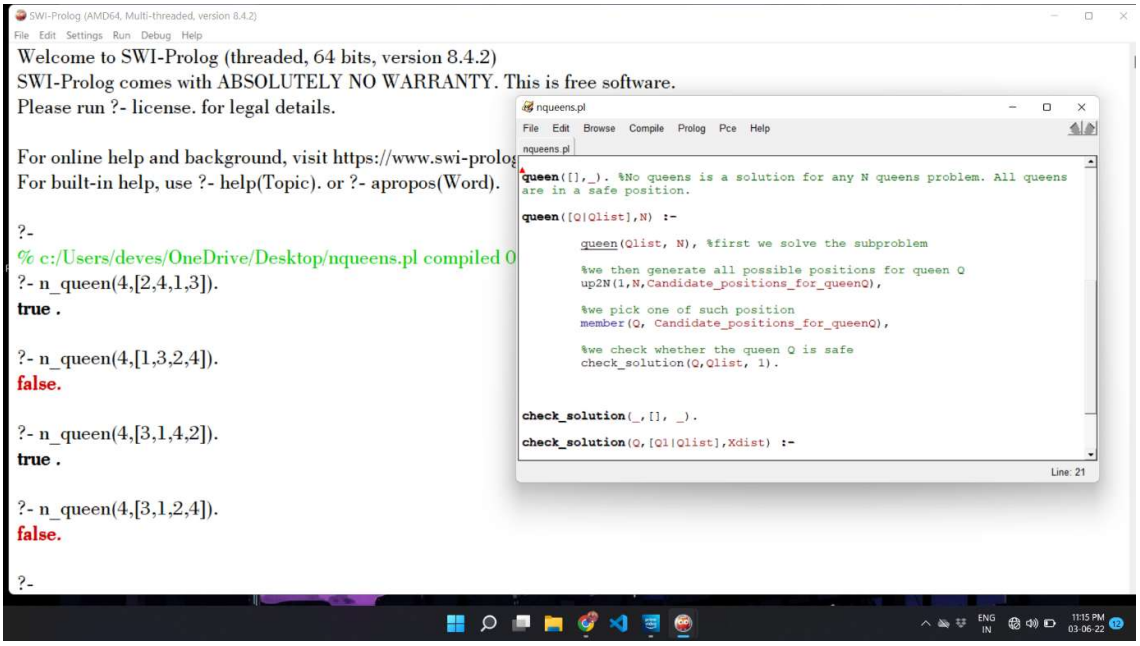
11					
12					
13					
14					


6(1).pl
File Edit Browse Compile Prolog Pce Help
6(1).pl
list_length([],0).
list_length([_|TAIL],N) :- list_length(TAIL,N1), N is N1 + 1.
c:/users/gourav/new folder/prolog/6(1).pl compiled
Line: 1
SWI-Prolog (Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
Welcome to SWI-Prolog (threaded, 32 bits, version 8.4.2)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.
For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).
?-
% c:/users/gourav/new folder/prolog/6(1) compiled 0.00 sec, -1 clauses
?- list_length([a,b,c,d,e,f,g,h,i,j],Len).
Len = 10.
?- list_length([],Len).
Len = 0.
?- list_length([[a,b],[c,d],[e,f]],Len).
Len = 3.
?-
ENG 10:43 PM


141.pl
File Edit Browse Compile Prolog Pce Help
141.pl
domains:-
town = symbol,
distance = integer.
predicates:
nondeterm.road(town,town,distance).
nondeterm.route(town,town,distance).
clauses:
road("tampa","houston",200).
road("gordon","tampa",300).
road("houston","gordon",100).
road("houston","kansas_city",120).
road("gordon","kansas_city",130).
route(Town1,Town2,Distance):-
road(Town1,Town2,Distance).
route(Town1,Town2,Distance):-
route(X,Town2,Dist2), Distance=Dist1+Dist2,
road(Town1,X,Dist1), route(X,Town2,Dist2), Distance=Dist1+Dist2,!.
c:/users/gourav/new folder/prolog/141.pl compiled
Line: 14
SWI-Prolog (Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
% c:/users/gourav/new folder/prolog/141 compiled 0.02 sec, -2 clauses
?- route("tampa", "kansas_city", X),
write("Distance from Tampa to Kansas City is ",X),nl.
false.
?- route("tampa", "kansas_city", X),
write("Distance from Tampa to Kansas City is ",X),nl.
false.
?-
ENG 11:30 PM


PROLOG~1.EXE
Files Edit Run Compile Options Setup
Editor
Line 75 Col 1 C:\USERS\NIRAV\DESKTOP\BORLAN
hypothesis(Patient,measles) :-
symptom(Patient,fever),
symptom(Patient,cough),
symptom(Patient,conjunctivitis),
symptom(Patient,runny_nose),
symptom(Patient,rash).
hypothesis(Patient,german_measles) :-
symptom(Patient,fever),
symptom(Patient,headache),
symptom(Patient,runny_nose),
symptom(Patient,rash).
Dialog
No
Goal: hypothesis(patient,measles)
Does patient have a fever (y/n) ?y
Does patient have a cough (y/n) ?y
Does patient have a conjunctivitis (y/n) ?y
Does patient have a runny_nose (y/n) ?n
Does patient have a cough (y/n) ?n
No
Goal:
Message
N~1.0\MEDICAL2.PRO
hypothesis
symptom
response
Trace
F2-Save F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Resize F10-End


SWI-Prolog (AMD64, Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
Welcome to SWI-Prolog (threaded, 64 bits, version 8.4.2)
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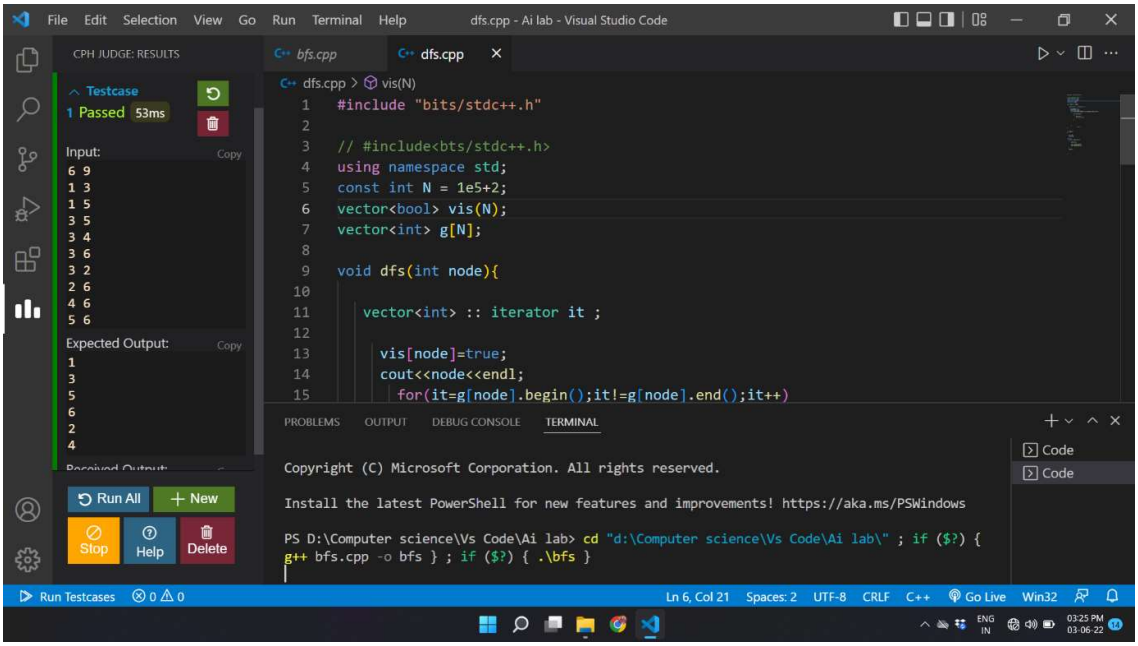
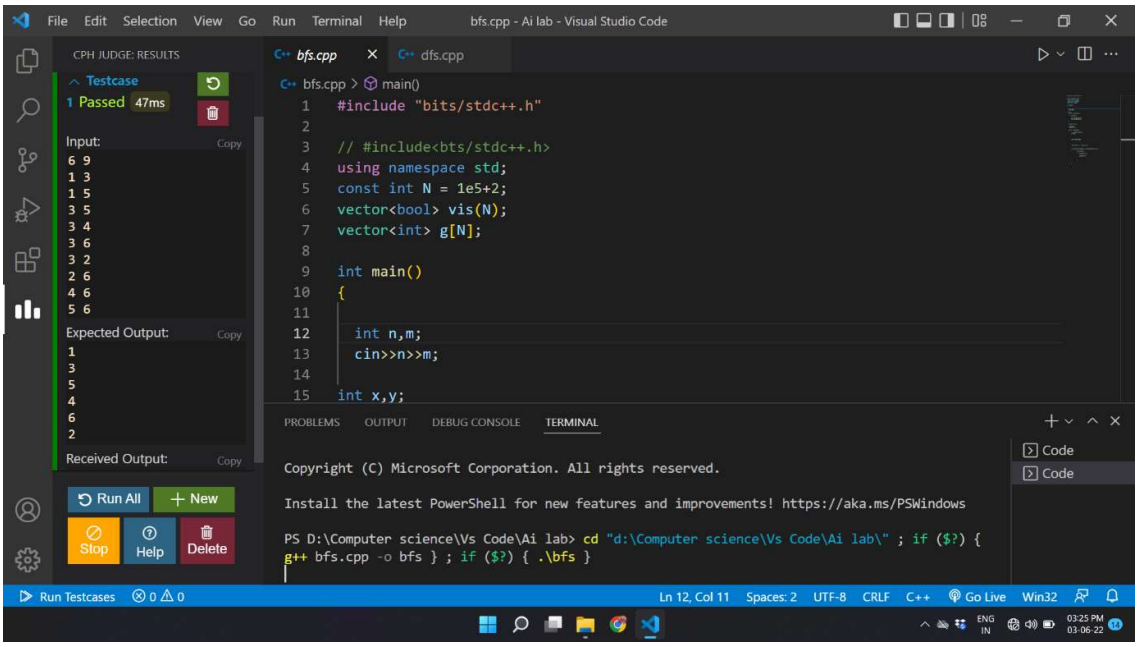
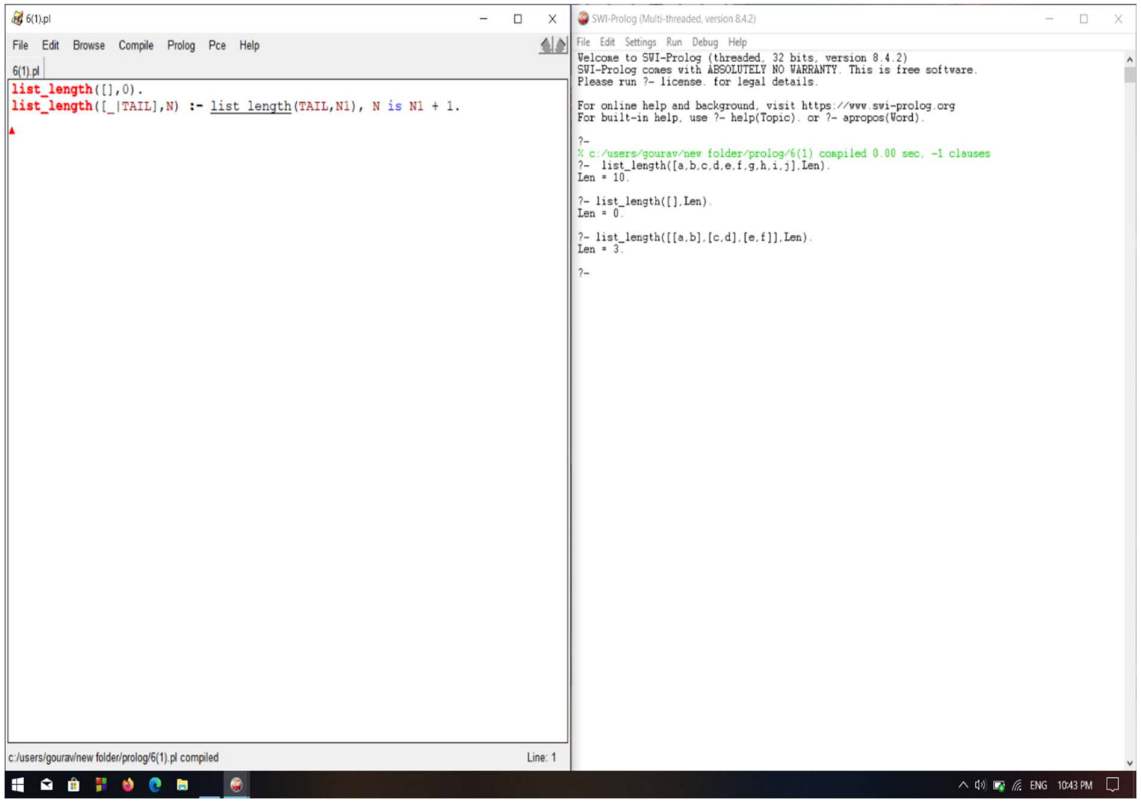
For online help and background, visit https://www.swi-prolog
For built-in help, use ?- help(Topic). or ?- apropos(Word).
?-
% c:/Users/deves/OneDrive/Desktop/nqueens.pl compiled 0
?- n_queen(4,[2,4,1,3]).
true .
?- n_queen(4,[1,3,2,4]).
false.
?- n_queen(4,[3,1,4,2]).
true .
?- n_queen(4,[3,1,2,4]).
false.
?-
nqueens.pl
File Edit Browse Compile Prolog Pce Help
nqueens.pl
queen([],_). %No queens is a solution for any N queens problem. All queens are in a safe position.
queen([Q|Qlist],N) :-
queen(Qlist, N), %first we solve the subproblem
%we then generate all possible positions for queen Q
up2N(1,N,Candidate_positions_for_queenQ),
%we pick one of such position
member(Q, Candidate_positions_for_queenQ),
%we check whether the queen Q is safe
check_solution(Q,Qlist, 1).
check_solution(_,[], _).
check_solution(Q,[Q1|Qlist],Xdist) :-
Line: 21
ENG
IN
11:15 PM
03-06-22


File Edit Selection View Go Run Terminal Help
dfs.cpp - Ai lab - Visual Studio Code
CPH JUDGE: RESULTS
Testcase
1 Passed 53ms
Input:
Copy
6 9
1 3
1 5
3 5
3 4
3 6
3 2
2 6
4 6
5 6
Expected Output:
Copy
1
3
5
6
2
4
Run All
New
Stop
Help
Delete
bfs.cpp
dfs.cpp
dfs.cpp > vis(N)
#include "bits/stdc++.h"
// #include<bts/stdc++.h>
using namespace std;
const int N = 1e5+2;
vector<bool> vis(N);
vector<int> g[N];
void dfs(int node){
vector<int> :: iterator it ;
vis[node]=true;
cout<<node<<endl;
for(it=g[node].begin();it!=g[node].end();it++)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Code
Code
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\Computer science\Vs Code\Ai lab> cd "d:\Computer science\Vs Code\Ai lab\" ; if ($?) {
g++ bfs.cpp -o bfs } ; if ($?) { .\bfs }
Run Testcases
Ln 6, Col 21
Spaces: 2
UTF-8
CRLF
C++
Go Live
Win32
ENG
IN
03:25 PM
03-06-22


File Edit Selection View Go Run Terminal Help
bfs.cpp - Ai lab - Visual Studio Code
CPH JUDGE: RESULTS
Testcase
1 Passed 47ms
Input:
6 9
1 3
1 5
3 5
3 4
3 6
3 2
2 6
4 6
5 6
Expected Output:
1
3
5
4
6
2
Received Output:
Run All
New
Stop
Help
Delete
bfs.cpp
dfs.cpp
bfs.cpp > main()
#include "bits/stdc++.h"
// #include<bts/stdc++.h>
using namespace std;
const int N = 1e5+2;
vector<bool> vis(N);
vector<int> g[N];
int main()
{
int n,m;
cin>>n>>m;
int x,y;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\Computer science\Vs Code\Ai lab> cd "d:\Computer science\Vs Code\Ai lab\" ; if ($?) {
g++ bfs.cpp -o bfs } ; if ($?) { .\bfs }
Code
Code
Run Testcases
Ln 12, Col 11
Spaces: 2
UTF-8
CRLF
C++
Go Live
Win32

11					
12					
13					
14					


6(1).pl
File Edit Browse Compile Prolog Pce Help
6(1).pl
list_length([],0).
list_length([_|TAIL],N) :- list_length(TAIL,N1), N is N1 + 1.
c:/users/gourav/new folder/prolog/6(1).pl compiled
Line: 1
SWI-Prolog (Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
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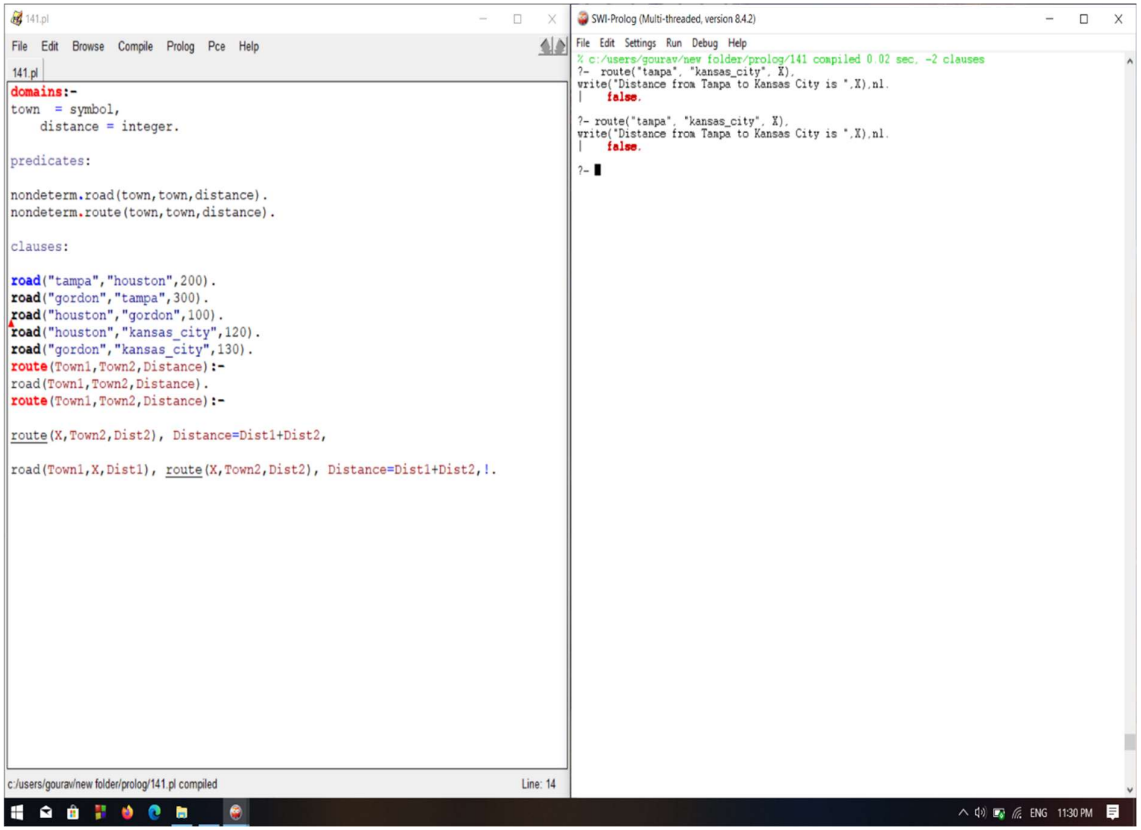
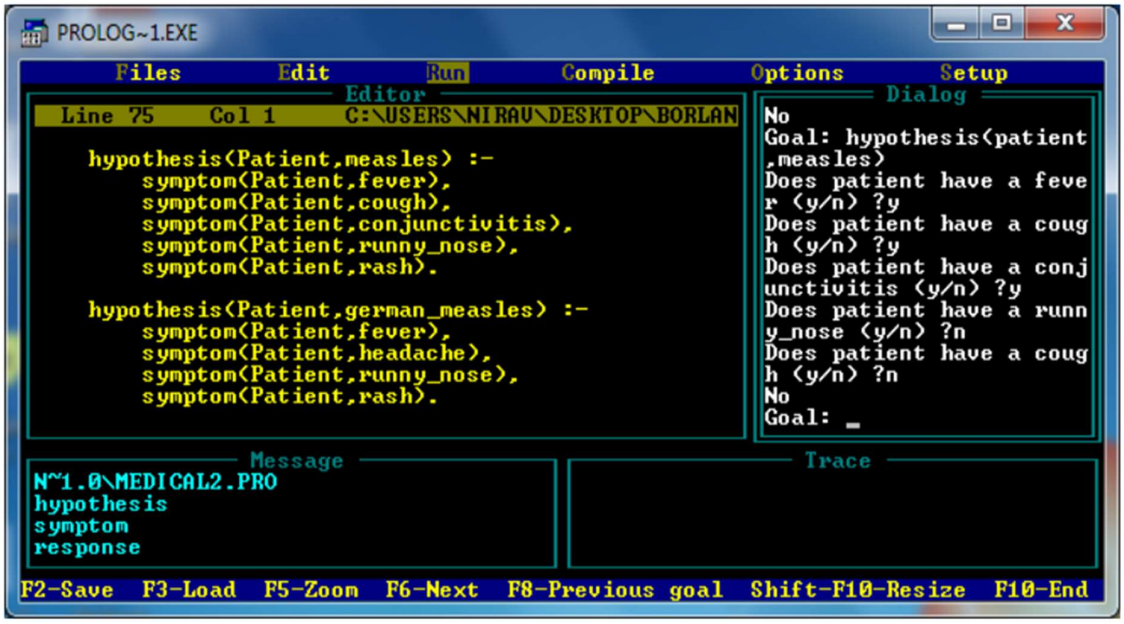
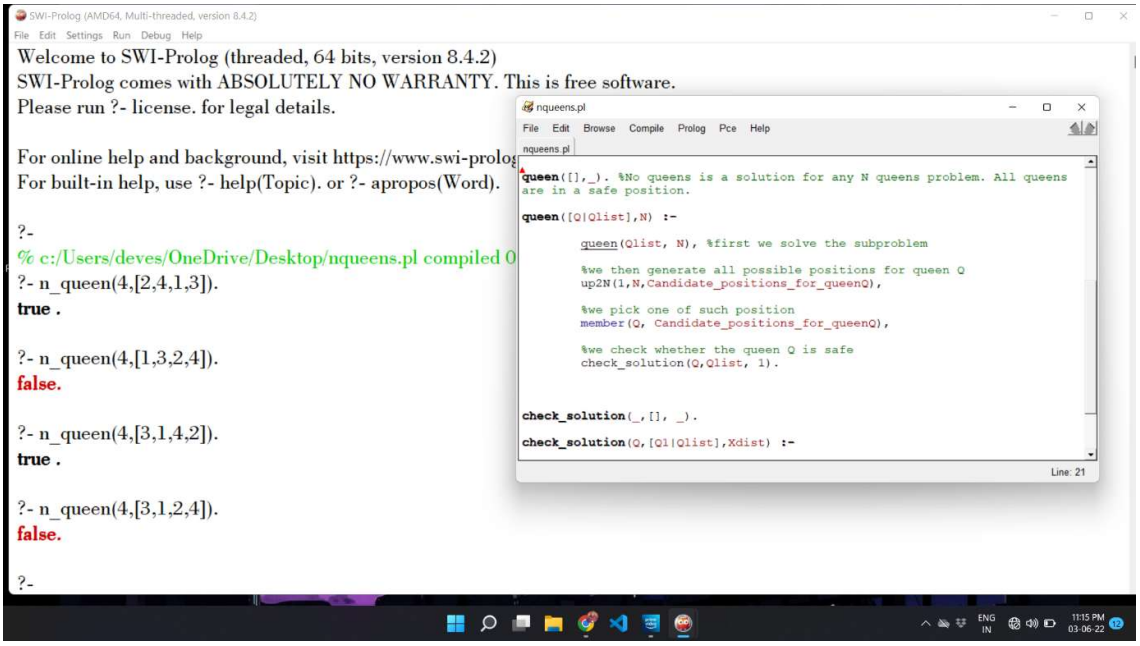
?-
% c:/users/gourav/new folder/prolog/6(1) compiled 0.00 sec, -1 clauses
?- list_length([a,b,c,d,e,f,g,h,i,j],Len).
Len = 10.
?- list_length([],Len).
Len = 0.
?- list_length([[a,b],[c,d],[e,f]],Len).
Len = 3.
?-
ENG 10:43 PM


141.pl
File Edit Browse Compile Prolog Pce Help
141.pl
domains:-
town = symbol,
distance = integer.
predicates:
nondeterm.road(town,town,distance).
nondeterm.route(town,town,distance).
clauses:
road("tampa","houston",200).
road("gordon","tampa",300).
road("houston","gordon",100).
road("houston","kansas_city",120).
road("gordon","kansas_city",130).
route(Town1,Town2,Distance):-
road(Town1,Town2,Distance).
route(Town1,Town2,Distance):-
route(X,Town2,Dist2), Distance=Dist1+Dist2,
road(Town1,X,Dist1), route(X,Town2,Dist2), Distance=Dist1+Dist2,!.
c:/users/gourav/new folder/prolog/141.pl compiled
Line: 14
SWI-Prolog (Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
% c:/users/gourav/new folder/prolog/141 compiled 0.02 sec, -2 clauses
?- route("tampa", "kansas_city", X),
write("Distance from Tampa to Kansas City is ",X),nl.
false.
?- route("tampa", "kansas_city", X),
write("Distance from Tampa to Kansas City is ",X),nl.
false.
?-
ENG 11:30 PM


PROLOG~1.EXE
Files Edit Run Compile Options Setup
Editor
Line 75 Col 1 C:\USERS\NIRAV\DESKTOP\BORLAN
hypothesis(Patient,measles) :-
symptom(Patient,fever),
symptom(Patient,cough),
symptom(Patient,conjunctivitis),
symptom(Patient,runny_nose),
symptom(Patient,rash).
hypothesis(Patient,german_measles) :-
symptom(Patient,fever),
symptom(Patient,headache),
symptom(Patient,runny_nose),
symptom(Patient,rash).
Dialog
No
Goal: hypothesis(patient,measles)
Does patient have a fever (y/n) ?y
Does patient have a cough (y/n) ?y
Does patient have a conjunctivitis (y/n) ?y
Does patient have a runny_nose (y/n) ?n
Does patient have a cough (y/n) ?n
No
Goal:
Message
N~1.0\MEDICAL2.PRO
hypothesis
symptom
response
Trace
F2-Save F3-Load F5-Zoom F6-Next F8-Previous goal Shift-F10-Resize F10-End


SWI-Prolog (AMD64, Multi-threaded, version 8.4.2)
File Edit Settings Run Debug Help
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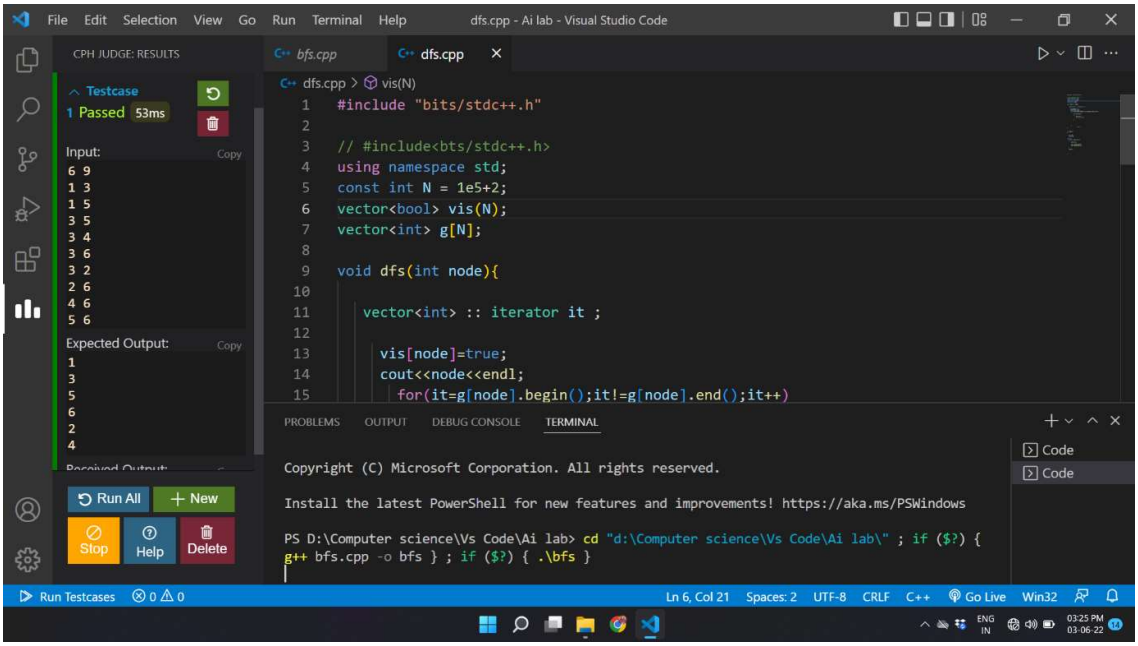
?-
% c:/Users/deves/OneDrive/Desktop/nqueens.pl compiled 0
?- n_queen(4,[2,4,1,3]).
true .
?- n_queen(4,[1,3,2,4]).
false.
?- n_queen(4,[3,1,4,2]).
true .
?- n_queen(4,[3,1,2,4]).
false.
?-
nqueens.pl
File Edit Browse Compile Prolog Pce Help
nqueens.pl
queen([],_). %No queens is a solution for any N queens problem. All queens are in a safe position.
queen([Q|Qlist],N) :-
queen(Qlist, N), %first we solve the subproblem
%we then generate all possible positions for queen Q
up2N(1,N,Candidate_positions_for_queenQ),
%we pick one of such position
member(Q, Candidate_positions_for_queenQ),
%we check whether the queen Q is safe
check_solution(Q,Qlist, 1).
check_solution(_,[], _).
check_solution(Q,[Q1|Qlist],Xdist) :-
Line: 21
ENG
IN
11:15 PM
03-06-22


File Edit Selection View Go Run Terminal Help
dfs.cpp - Ai lab - Visual Studio Code
CPH JUDGE: RESULTS
Testcase
1 Passed 53ms
Input:
Copy
6 9
1 3
1 5
3 5
3 4
3 6
3 2
2 6
4 6
5 6
Expected Output:
Copy
1
3
5
6
2
4
Run All
New
Stop
Help
Delete
bfs.cpp
dfs.cpp
dfs.cpp > vis(N)
#include "bits/stdc++.h"
// #include<bts/stdc++.h>
using namespace std;
const int N = 1e5+2;
vector<bool> vis(N);
vector<int> g[N];
void dfs(int node){
vector<int> :: iterator it ;
vis[node]=true;
cout<<node<<endl;
for(it=g[node].begin();it!=g[node].end();it++)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Code
Code
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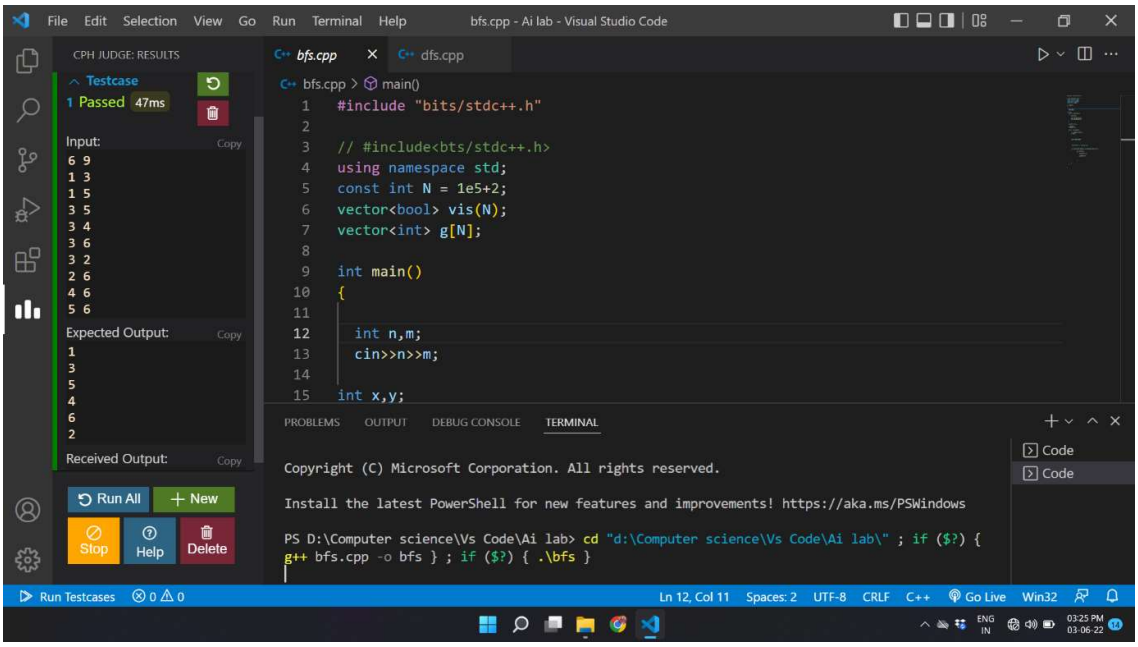
PS D:\Computer science\Vs Code\Ai lab> cd "d:\Computer science\Vs Code\Ai lab\" ; if ($?) {
g++ bfs.cpp -o bfs } ; if ($?) { .\bfs }
Run Testcases
Ln 6, Col 21
Spaces: 2
UTF-8
CRLF
C++
Go Live
Win32
ENG
IN
03:25 PM
03-06-22


File Edit Selection View Go Run Terminal Help
bfs.cpp - Ai lab - Visual Studio Code
CPH JUDGE: RESULTS
Testcase
1 Passed 47ms
Input:
6 9
1 3
1 5
3 5
3 4
3 6
3 2
2 6
4 6
5 6
Expected Output:
1
3
5
4
6
2
Received Output:
Run All
New
Stop
Help
Delete
bfs.cpp
dfs.cpp
bfs.cpp > main()
#include "bits/stdc++.h"
// #include<bts/stdc++.h>
using namespace std;
const int N = 1e5+2;
vector<bool> vis(N);
vector<int> g[N];
int main()
{
int n,m;
cin>>n>>m;
int x,y;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
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PS D:\Computer science\Vs Code\Ai lab> cd "d:\Computer science\Vs Code\Ai lab\" ; if ($?) {
g++ bfs.cpp -o bfs } ; if ($?) { .\bfs }
Code
Code
Run Testcases
Ln 12, Col 11
Spaces: 2
UTF-8
CRLF
C++
Go Live
Win32