Department of Computer Engineering

Academic Term: Jan-Apr 2022

Class: T.E Computer Sem -VII

Subject: Artificial Intelligence

Practical No:	6
Title:	Forward Chaining Algorithm
Date of Performance:	25/04/2022
Date of Submission:	26/04/2022
Roll No:	8940
Name of the Student:	Warren Fernandes

Evaluation:

Sr. No	Rubric	Grade
1	On time Completion & Submission(2)	
2	Output(3)	
3	Code Optimization(3)	
4	Knowledge of the topic(2)	
5	Total (10)	

Signature of the Teacher:

Practical- 06

Forward Chaining Algorithm

Problem Statement:

The law says that it is a crime for an American to sell weapons to hostile nations. The country Nono, an enemy of America, has some missiles, and all of its missiles were sold to it by Colonel West, who is American.

Prove that West is a criminal.

Code:

```
Use any problem statement of your choice like
American.
Prove that West is a criminal.'''
def american(x): if
x=='West': print(x," is an
else:
    print("america: False")
missile(y):
 print(y," is a missile")
return weapon(y)
weapon(y):
   print(y," is a weapon")
   print("weapon: False")
```

```
def owns(x,y): if y=='m'
and x=='Nono': print(x,"
owns ",y) return
sells('West',y,x) else:
   print("owns: False")
return False
def sells(x,y,z): if x=='West' and
y=='m' and z=='Nono':
   print(x," sells ",y," to ",z)
return True else:
   print("sells: False")
return False
def enemy(x, y):
if y=='America':
   print(x," is an enemy of ",y)
return hostile(x) else:
   print("enemy: False")
return False
def hostile(x):
x=='Nono': print(x,"
is hostile")
True else:
  print("hostile: False")
return False
******* and missile('m') and missile('m') and missile('m')
owns('Nono','m') and enemy('No no','America'):
print("\nWEST IS A CRIMINAL")
print("\nHence Proved!!") else:
 print("\nWEST IS NOT A CRIMINAL")
```

Output: