Experiment No: 3

Experiment Name: Make a result builder AI program with below names and using read and write facts.

Student Name	CGPA
Rifat	4.0
Shaon	3.9
Inzamamul	3.8
Siam	3.85
Rajib	3.92
Elman	3.82

Solution:

1: Construct a knowledge Base:

```
result(rifat, 4.0).
result(shaon,3.9).
result(inzamamul,3.8).
result(siam,3.85).
result(rajib,3.92).
result(elman,3.82).
```

2: Create rules:

```
get_result:-
        write('Enter your name: '), nl,
        read(X), nl,
        result(X,Y), nl,
        write(Y).
```

3: Open Query Section:

```
?- get_result.
Enter Your name: rajib
3.8
true
```

Experiment 3.1:

Experiment Name: Make a result builder AI program -

Section A	
Student Name	CGPA
Rifat	4.0
Shaon	3.9
Inzamamul	3.8

Section B	
Student Name	CGPA
Siam	3.85
Rajib	3.92
Elman	3.82

Use compare techniques (If/If Else) and compare two section results.

Solution:

1: Construct a knowledge Base:

```
% section A
result(rifat, 4.0).
result(shaon,3.9).
result(inzamamul,3.8).

%section B
result(siam,3.85).
result(rajib,3.92).
result(elman,3.82).
```

2: Create compare rules:

```
get_result:-
        write('Enter Section A student name: '), nl,
        read(X), nl,
        result(X,Y), nl,
        write('Section A student result is: '), nl,
        write(Y),nl,

        write('Enter Section B student name: '), nl,
        read(P),nl,
        result(P,Q),nl,
        write('Section B Student result is: '), nl,
        write(Q),nl,

        compare(Y,Q).

compare(Y,Q):-

        Y>Q, nl, write('Section A Students is Best.');
        Q>Y, nl, write('Section B Students is Best');
        Y=:=Q, nl, write('All the students are same');
```

H/W: Write a AI program which calculate CGPA of a student.

Experiment No: 4

Experiment Name: Check whether the number is prime or not?

Solution:

```
Check(X):-
        X=:=0,
        write('Prime').
Check(X):-
        X\==0,
        write('Prime').
prime_or_not(X,Y):- Z is X mod Y,
        Check(Z).
input_number(N):-
prime_or_not(N,2).
```