Name: Krishna Kerm

Roll no. 15600118035

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Subject: Artificial intelligen lab

subject code: CS793C

PCET=2

① write a program in prolog to find the length of a list.

```
size([],0).
size([_|T],N):-size(T,N1),N is N1+1.
```

size([1,2,3,4],N).

Syntax error: Unexpected end of file

alse

size([1,2,3,4],N).

N = 4

?- size([1,2,3,4],N).

(2) Write a program in prolog to multiple two numbers.

```
go:- write('Enter first number: '), read(X), nl,
     write('Enter second number: '), read(Y), nl,
     multiply(X, Y).

multiply(X, Y):-
        M is X*Y
        write('multiplication: '), write(M), nl.
```

go

go.

Enter first number:

3

Enter second number:

3

Mulitplication: 9

true

?- go.