**Lec 3 prolog third class**

* Input and output statements in prolog

1- readln ( ) used for reading one text line

2- readchar ( ) used for reading one character

 3- Readreal ( ) used for reading one real number

4- readint ( ) used for reading one integer

5- write ( ) used for print

6- nl ( )

Program2 : find the maximum number from two number

domains

X,Y,Z = integer.

predicates

max(x, x, x).

clauses

max(X,Y,Z):- X > Y, Z=X.

max(X,Y,Z):- X< Y, Z=Y.

OR

domains

X,Y ,Z= integer.

predicates

max(x, y, z).

clauses

max(X,Y,X):- X > Y.

max(X,Y,Y):- X< Y.

goal : max(3,7,A)

 A= 7

program : write prolog program to find the value of Y.

 Y= X+55 IF X > 0

 Y= X – 4 IF X < 0

 Y = X IF X =0

domains

X,Y = integer.

predicates

task (X,Y).

clauses

task(X,Y):- X > 0, Y=X+55.

task (X,Y) :- X < 0, Y =X- 4.

task (X,Y) :- X=0, Y=X.

goal: task( 0,Y)

y=0

H.W 1: write prolog program to find the value of Z.

Z= X+ Y , X >= 0.

Z = X-Y , X< 0.

H.W 2 : write prolog program to answer who john talks you when john talks to anyone who likes reading and food?

Program 5: write a prolog program to check if a given number is odd or even ?

predicates

odd\_even ( integer).

clauses

odd\_even (X):- X mod 2 = 0 , write (“ even no.”).

odd\_ even (X) :- X mod 2 < > 0 , write ( “ odd no “).

Program 6 “- write a prolog program to check if the given number is positive or negative?

Predicates

Posnum( integer).

Clauses

Posnum(I) :- I > 0 , write (“pos”) , nl.

Posnum(I) :- I < 0 , write (“neg”), nl .