Que. 3)

a)

mysterious([],0). Its called 'predicate', something like functions in imperative languages. It has two arguments: [], and 0. and it is ended by dot (.). Clauses with empty bodies are called facts.

mysterious([X],X). Is a "rule" that says, "If the list has one element, then the result is just that element".

mysterious([X,Y|Xs], Res) :- Now, when argument 1 is list which looks like [SomeElement, NextElement|LastElements],

mysterious(Xs, Res1), Calls 'mysterious' with only LastElements and variable Res1 (skips first two elements of list)

Res is X + Res1. % then add first element to Res1.

What program does: It calculates the sum of every second element of list, beginning from first.

b) Result: 30

Que. 4)

