**Program No. :**

**Aim : Write a Program for sorting an array using Merge Sort.**

domains

integerlist=integer\*

predicates

merge(integerlist,integerlist,integerlist)

clauses

merge([],L,L).

merge(L,[],L).

merge([X|T1],[Y|T2],[X|T3]):-

X<Y,

merge(T1,[Y|T2],T3).

merge([X|T1],[Y|T2],[Y|T3]):-

X>Y,

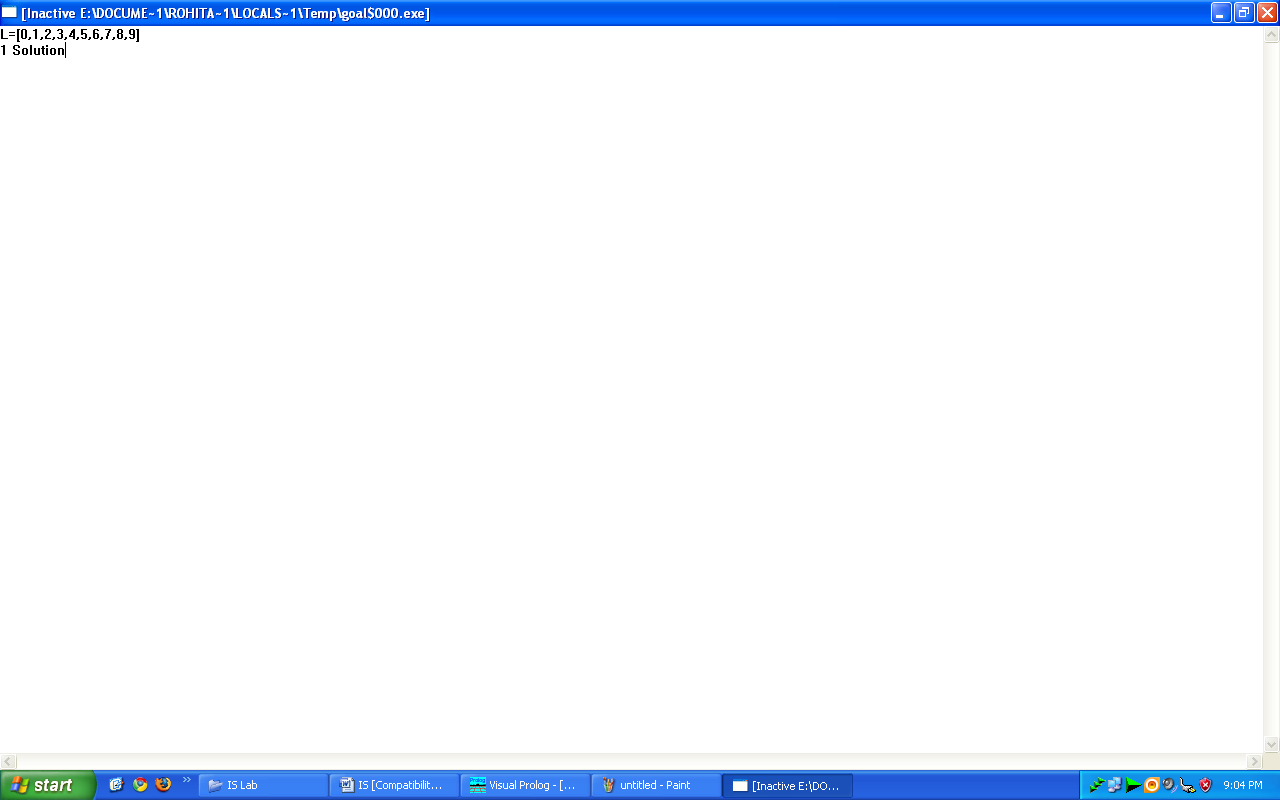
merge([X|T1],T2,T3).

goal

merge([1,3,5,7,9],[0,2,4,6,8],L).

**Name : Rohit Aggarwal**

**Roll No. : 7CS-097**

**OUTPUT**