**Q. WAP for implementation of graph traversals by applying DFS.**

#include<stdio.h>

#include<stdlib.h>

int visited[7] = {0,0,0,0,0,0,0};

int A [7][7] = {

{0,1,0,1,0,0,0},

{1,0,1,1,0,1,1},

{0,1,0,1,1,1,0},

{1,1,1,0,1,0,0},

{0,0,1,1,0,0,1},

{0,1,1,0,0,0,0},

{0,0,0,0,1,0,0}

};

void DFS(int i)

{

printf("\nTraversed : %d", i);

visited[i] = 1;

for (int j = 0; j < 7; j++)

{

if(A[i][j]==1 && !visited[j])

{

DFS(j);

}

}

}

int main()

{

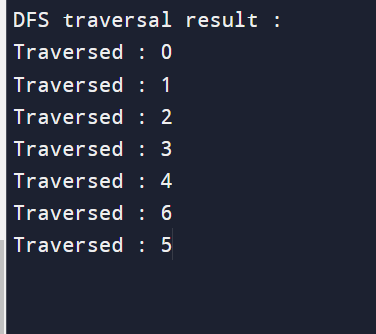
printf("DFS traversal result : ");

DFS(0);

return 0;

}

**OUTPUT :**

****