**DAA PRACTICAL**

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**BINARY SEARCH PROGRAM**

#include<iostream>

using namespace std;

int main(){

int i,n;

int a[9];

cout<<"Enter the elements in array :"<<endl;

for(i=0; i<9; i++){

cin>>a[i];

}

int low = 0;

int high = 9-1;

int mid = (low+high)/2;

cout<<"Enter the element to be searched:"; cin>>n;

for(i=0; i<9; i++){

if (n == mid) {

cout<<"Element found !";

break;

}

if(n > mid) {

low = mid+1; }

if (n < mid) {

high = mid-1; }

mid = (low+high)/2;

}

if(i == 9)

cout<<"\nElement not found!";

return 0;

}

// OUTPUT :

