

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

**(A Govt Aided UGC Autonomous & NAAC Accredited Institute Affiliatedto RGPV, Bhopal)**

re

**Data Structure Lab**

ASSIGNMENT 1



SUBMITTED BY:

ASMITA JAIN

0901EO201017

SUBMITTED TO:

PROF. NAMRATA AGRAWAL

**Introduction:**

**Problem statement:** Write a program to Insert a new element at a given index in an array.

**Program code :**

#include <iostream>

#define MAX 101

using namespace std;

void insertK(int arr[],int size\_ ,int k, int pos)

{

int i;

for(i=size\_;i>=pos;i--)

{

arr [i+1 ]= arr [i];

if(i==pos)

{

arr[i]=k;

break;

}

}

}

int main()

{

int arr[MAX], n, i, k, p;

cout<<"enter size(upto 100) : ";

cin>>n;

cout<<"\nENTER ELEMENTS : \n";

for(i=0;i<n;i++)

{

cin>>arr[i];

}

cout<<"\nenter the element inserted and position : ";

cin>>k>>p;

insertK(arr,n,k,p-1);

cout<<"\nthe new array : ";

for(i=0;i<=n;i++)

{

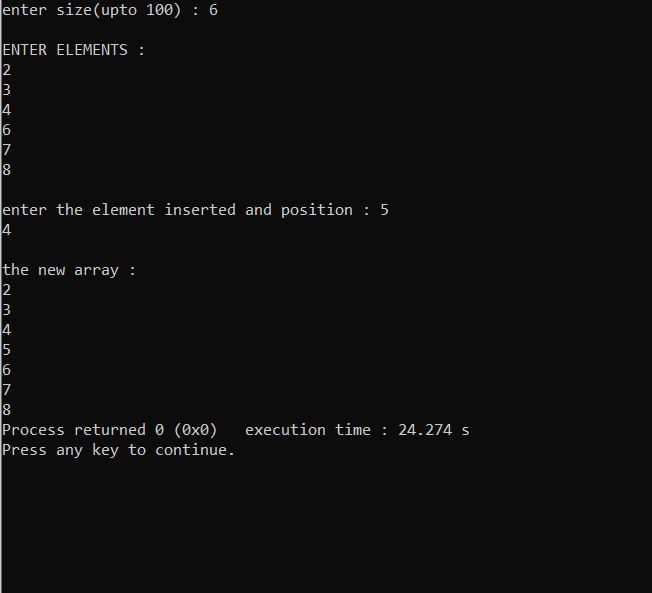
cout<<"\n"<<arr[i];

}

return 0;

}

**OUTPUT:**

****