COMPUTER ENGINEERING DEPARTMENT

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LABORATORY EXERCISE #4
DATA STRUCTURE AND ALGORITHM ANALYSIS LAB.
2nd Semester S.Y. 2018 – 2019

NAME: _____

SCHEDULE: _____

COURSE & YEAR: _____

DATE: _____

General Direction: Create a C++ program that will satisfy the required output. Encode each of the program and illustrate the result.

Program No.1(save as arrex1)
```
//initialized array example using quiz scores
#include<iostream.h>
#include<conio.h>
int johneric[]={34,20,13,40,50};
int n, result=0;
int main()
{
        for (n=0 ; n<5 ; n++)
        result ++ johneric[n];
        cout<<"The average score of johneric is "<<(result/5);
        getch();
        return 0;
}
```

Program No.2(save as arrex2)
```
// arrrays as parameters
#include<iostream.h>
#include<conio.h>
void print array (int arg[],int length)
{
        for(int n=0;n<length;n++)
        cout<<arg[n]<<" ";
        cout<<"\n";
}
int main()
{
        int firstarray[]={5,10,15};
        int secondarray[]={2,4,6,8,10};
        printarray(firstarray,3);
        printarray(secondarray,5);
        getch();
        return 0;
}
```

Program No. 3(save as arrex3)

```
// This program illustrate the use of arrays in sorting
#include<iostream.h>
#include<conio.h>
int sort_max(int num[5])
{
int maxval,Pos, maxpos;
maxval=num[0];
maxpos=0;
for(Pos=1, Pos<5;Pos++)
        if(num[Pos]>maxval)
        {
        maxval=num[Pos];
        maxpos=Pos;
        }
cout<<"The largest integers is the integer no. "<<(maxpos+1)<<endl;
return maxval;
}
```

Program No.4(save as arrex4)

```
//This program illustrate the multidimensionalal array
#include<iostream.h>
#include<conio.h>
void main()
{
int i,j;
int seat[3][3]={{0,0,1},{1,0,1},{1,1,0}};
cout<<"Seats"<<endl;
for(i=0;i<3;i++)
for(j=0;j<3;j++)
        {cout<<seat[i][j]<<"\t";
        if(j==2)
        cout<<"\t";
        }
cout<<endl;
for(i=0;i<3;i++)
        for(j=0;j<3;j++)
        if(seat[i][j]= =1)
cout<<"How"<<(i+1)<<"Column"<<(j+1)<<"seat is occupied" <<endl;
getch();
}
```