



Shaheed Zulfikar Ali Bhutto Institute of Science & Technology

COMPUTER SCIENCE DEPARTMENT

Total Marks: 7.5

Obtained Marks: _____

DATA STRUCTURE AND ALGORITHM

Lab Report # 02

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Question no 1:

Write a program in C++ to find the maximum and minimum using Array.

Procedure

- Open the **Dev c++** software on your laptop.
- Go to new file and click the project then go to console application and write you **C++ code**.
- Declare main and call function.
- Declare variable of integer type to store n.
- Declare variable of integer type to store maxnumber.
- Declare variable of integer type to store minnumber.
- Using for loop for the counter.
- Display these statement on screen using cout statement.
- Press **F9** for compile and **F10** for run.
- Write your code in Word file.
- Take the Screen short of your output and paste it in Word file.

Code:

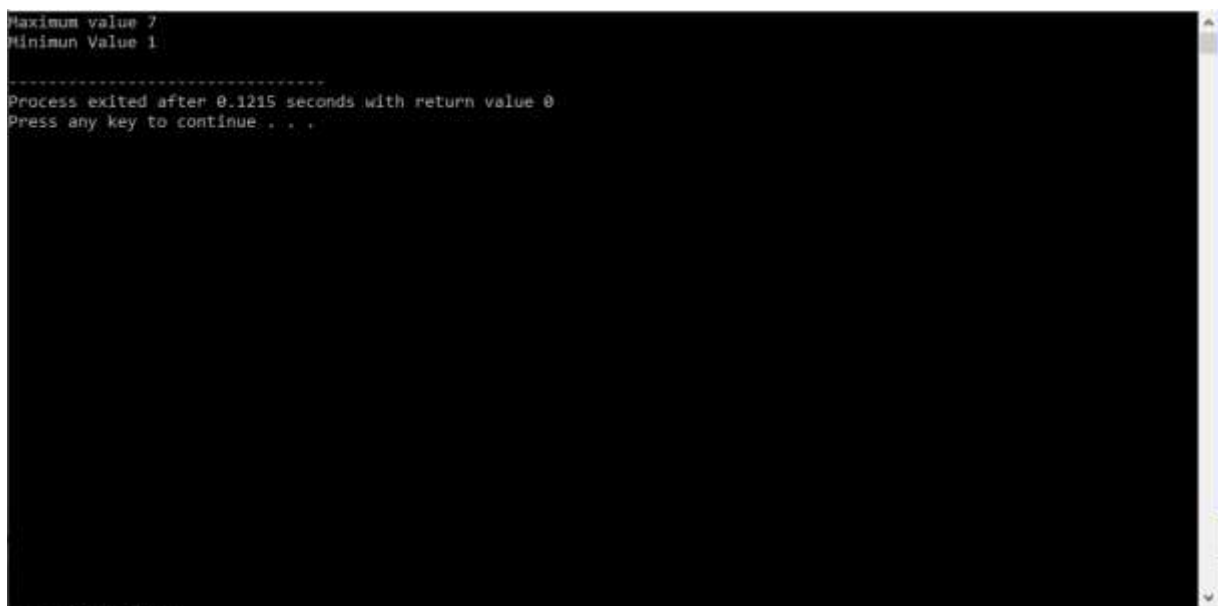
```
#include<iostream>
using namespace std;

int main()
{
    int n[7]={1,2,3,4,5,6,7};
    int maxvalue=n[0];
```

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```
for(int i=0;i<7;i++)
{
    if(n[i]>maxvalue)
        maxvalue=n[i];
}
cout<<"Maximum value "<<maxvalue<<endl;
int minvalue=n[0];
for(int j=0;j<7;j++)
{
    if(n[j]<minvalue)
        minvalue=n[j];
}
cout<<"Minimun Value "<<minvalue<<endl;
return 0;
}
```

CONSOLE SCREEN:

A screenshot of a Windows command prompt window. The text displayed is: 'Maximum value 7', 'Minimun Value 1', followed by a separator line '-----', then 'Process exited after 0.1215 seconds with return value 0', and finally 'Press any key to continue . . .'. The window has a standard Windows title bar and scrollbar on the right side.

```
Maximum value 7
Minimun Value 1
-----
Process exited after 0.1215 seconds with return value 0
Press any key to continue . . .
```