**COMSATS University Islamabad,**

**Lahore Campus**

Logo, company name

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**Programming Fundamentals**

**LAB TASK 02**

**Exercise 6:** Write a program that reads in five integers and then determines and prints the largest and smallest integers in the group. Use loop to input the values from the user (Hint: use two of the variables to hold the current largest and smallest integers.)

**Pseudo Code:**

1. Start.
2. Input any five Integer Number using loop and store it using Array.
3. If 1st Integer is Greater than All remaining Integers.
4. Print 1st Integer is Greater.
5. If 1st Integer is Smaller than All remaining Integers.
6. Print 1st Integer is Smaller.
7. If 2nd Integer is Greater than All remaining Integers.
8. Print 2nd Integer is Greater.
9. If 2nd Integer is Smaller than All remaining Integers.
10. Print 2nd Integer is Smaller.
11. If 3rd Integer is Greater than All remaining Integers.
12. Print 3rd Integer is Greater.
13. If 3rd Integer is Smaller than All remaining Integers.
14. Print 3rd Integer is Smaller.
15. If 4th Integer is Greater than All remaining Integers.
16. Print 4th Integer is Greater.
17. If 4th Integer is Smaller than All remaining Integers.
18. Print 4th Integer is Smaller.
19. If 5th Integer is Greater than All remaining Integers.
20. Print 5th Integer is Greater.
21. If 5th Integer is Smaller than All remaining Integers.
22. Print 5th Integer is Smaller.
23. End.

**C Code:**

#include<stdio.h>

#include<stdlib.h>

#include<math.h>

/\* This program is prepared by Syed Asad Jamil. Reg no. SP22-BSE-123. Section: B on 27/03/2022

(This Program find the Largest and Smallest number by taking input using loop). \*/

int main()

{

int a[5],i,max,min;

printf("Enter five integer numbers :- \n");

for(i=0;i<5;i++)

{

printf("Enter number %d : ",i+1);

scanf("%d",&a[i]); //Input the integers numbers

}

printf("\n");

max=a[0];

min=a[0];

for(i=1;i<=5;i++)

{

if(a[i]>max)

max=a[i];

if(a[i]<min)

min=a[i];

}

printf("%d is Largest number!!!\n",max);

printf("%d is Smallest number!!!\n",min);

return 0;

Graphical user interface, text

Description automatically generated with medium confidence}

**Output:**