## **Experiment No:** 02

**Experiment Name:** Finding Minimum and Maximum number from array.

Here we can find minimum and maximum number from array,

```
For Minimum:
```

```
Source Code:
#include<stdio.h>
Int main() {
  int A[4], i, x;
  for(i=0;i<4; ++i)
  scanf("%d", &A[i]);
  x=A[0];
  for(i=1; i<4; ++I) {
   if(A[i] < x)
  x=A[i];
  }
  Printf("\nMinimum is %d", x);
  return 0;
}</pre>
```

## Output:

```
C:\Users\Dell\Desktop\DSA\a \times + \forall \times \text{2} \\
6 \\
5 \\
minimum is 2 \\
Process returned 14 (0xE) \\
execution time : 6.563 s \\
Press any key to continue.
```

## For Maximum:

```
Source Code:
#include <stdio.h>
int main() {
  int A[4], i, x;
  for (i = 0; i < 4; ++i) {
    scanf("%d", &A[i]);
  }
  x = A[0];
  for (i = 1; i < 4; ++i) {
    if (A[i] > x) {
     x = A[i];
  }
  }
  printf("\nMaximum is %d", x);
```

```
return 0;
}
```

## Output:

```
C:\Users\Dell\Desktop\DSA\a \times + \times

4

6

9

3

Maximum is 9

Process returned 0 (0x0) execution time : 5.214 s

Press any key to continue.
```

**Discussion:** In today's lab we found minimum and maximum number from array. Finding the minimum and maximum numbers in a 1D array is a fundamental problem in programming, often used in beginner-level exercises to practice loops and conditional statements. This task involves traversing the array and comparing its elements to determine the smallest and largest values.