

(Linear Search)

Practical No. 7

Aim: Write a C++ program to initialize an array of 10 integers and verify whether a given number is present in the array or not using linear search.

```
code #include <iostream.h>
#include <conio.h>
void main()
{
    clrscr();
    int arr[10] = {23, 45, 12, 78, 34, 89, 56, 10, 67, 90};
    int num, i, found = 0;
    cout << "Enter a number to search:";
    cin >> num;
    for (i = 0; i < 10; i++)
    {
        if (arr[i] == num)
        {
            found = 1;
            break;
        }
    }
    if (found == 1)
    {
        cout << "\n The number " << num << " is found in the array.";
    }
    else
```

```
{  
    cout << "The number " << num << " is NOT  
        found in the array.";
```

```
}
```

```
Getch();
```

```
}
```

