

Experiment No-06: Nested loop and Array in C.

Objectives

- Write C Programs using nested for loop.
- Write C Programs using the one-dimensional array.
- Solve various problems using nested loop and array.

Example 1: A C Program to demonstrate the use of nested for loop.

```
#include <stdio.h>
int main()
{
    int a, b;
    for(a = 1; a <= 5; a++)
    {
        for(b = 1; b <= 5; b++)
        {
            printf("%d ", b);
        }
        printf("\n");
    }
    return 0;
}
```

Example 2: A C Program for array traversing.

```
#include <stdio.h>

int main() {
    int array[5], i;

    printf("Enter 5 integers: ");

    // taking input and storing it in an array
    for(i = 0; i < 5; ++i) {
        scanf("%d", &array[i]);
    }

    printf("Displaying integers: ");

    // printing elements of an array
    for(i = 0; i < 5; ++i) {
        printf("%d\n", array[i]);
    }
    return 0;
}
```

Lab Task:

Practice Exercise

1. Pattern Problems

1
22
333
4444
55555

1
12
123
1234
12345

55555
4444
333
22
1

* * * * *
* * * *
* * *
* *
*

2. Write a C program to print all negative elements in an array.
3. Write a C program to count the total number of even and odd elements in an array.
4. Write a C program to copy all elements from an array to another array.
5. Write a C program to find the reverse of an array.
6. Write a C Program to find the sum of n numbers using array.

Resources (Link)

[\[Nested Loop\]](#) [\[1D-Array\]](#)