

Practical No. 13

Aim: Write and execute two simple programs each using pointers.

Theory:

The pointer in C, is a variable that stores address of another variable. A pointer can also be used to refer to another pointer function. A pointer can be incremented/decremented, to point to the next/previous memory location.

Code :

```
1) #include <stdio.h>
   int main() {
       int arr[5] = {1, 2, 3, 4, 5};
       int i;
       int *p = a;
       for(i=0; i<5; i++) {
           printf("%d", *p);
           p++;
       }
       return 0;
   }
```

```
2) #include <stdio.h>
   int main() {
       int var[7] = {10, 20, 30, 40, 50, 60, 70};
       for(int i=0; i<7; i++) {
           printf("var[%d]: Value is %d and address is %d\n", i,
               var[i], &var[i]);
       }
       return 0;
   }
```

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return 0;

D:\coding\C\practicals\practicalThirteen\13.1.exe

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D:\coding\C\practicals\practicalThirteen\13.2.exe

```
var[0]: value is 10 and address is 6487552
var[1]: value is 20 and address is 6487556
var[2]: value is 30 and address is 6487560
var[3]: value is 40 and address is 6487564
var[4]: value is 50 and address is 6487568
var[5]: value is 60 and address is 6487572
var[6]: value is 70 and address is 6487576
```


}

Conclusion:

Hence, I wrote and executed two simple programs each using pointers.