

Practical No. 14

Aim : Write and execute a single program using array of pointers.

Theory :

Array of pointers:

Array of pointers is nothing but an array of the pointer variables.

Syntax:

int *var_name [array-size];

example:

int *pt[3];

Code :

```
#include <stdio.h>
```

```
#define MAX 3
```

```
int main() {
```

```
    int arr[3] = {10, 100, 200};
```

```
    int i;
```

```
    int *pt[MAX];
```

```
    for (i=0; i<MAX; i++) {
```

```
        pt[i] = &var arr &arr[i];
```

```
    }
```

```
    for (i=0; i<MAX; i++) {
```

```
        printf("value of arrvariable [i] is %d\n", i, *pt[i]);
```

```
    }
```

```
    return 0;
```

```
}
```

Write and execute a single program using array of pointer

Answer

Array of pointer

Array of pointer is nothing but an array of the

pointer variables

```
D:\coding\C\practicals\practicalFourteen\14.1.exe
Value of arr[0] is 10
Value of arr[1] is 100
Value of arr[2] is 200
```

Code

#include <stdio.h>

#define MAX 3

int main()

{ int arr[MAX];

int i;

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

{ arr[i] = i*i;

printf("Value of arr[%d] is %d\n", i, arr[i]);

}

return 0;

}

Conclusion :

Hence, I write and executed a single program using array of pointers and learnt about array of pointers.