

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

```
int main() {
```

```
    int n, i, pos, new_val, choice;
```

```
    printf("Enter the number of elements in the array: ");
```

```
    scanf("%d", &n);
```

```
    int arr[n];
```

```
    printf("Enter %d elements of the array:\n", n);
```

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

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
    do {
```

```
        printf("Current array: ");
```

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

```
            printf("%d ", arr[i]);
```

```
        }
```

```
        printf("\n");
```

```
        printf("Enter the position of the element to update (1 to %d): ", n);
```

```
        scanf("%d", &pos);
```

```
        if(pos < 1 || pos > n) {
```

```
        printf("Invalid position! Please enter a position between 1 and %d.\n", n);

        continue;
    }

    printf("Enter the new value: ");

    scanf("%d", &new_val);

    arr[pos - 1] = new_val;

    printf("Do you want to update another element? (1 for Yes, 0 for No): ");

    scanf("%d", &choice);

} while(choice == 1);

printf("Final array: ");

for(i = 0; i < n; i++) {

    printf("%d ", arr[i]);

}

printf("\n");

return 0;

}
```

The screenshot shows the Visual Studio Code editor with the following components:

- Explorer Panel:** Displays the file structure. The 'c' directory is expanded, showing files like `qwe.exe`, `a.exe`, and several `practical_1a.c` through `practical_3c.c` files. The `practical_1b.c` file is selected.
- Terminal Panel:** Shows the execution of a C program. The commands and output are as follows:

```
PS C:\Users\Hero\Desktop\coding> cd c
PS C:\Users\Hero\Desktop\coding\c> gcc practical_1b.c
PS C:\Users\Hero\Desktop\coding\c> ./a.exe
Enter the number of elements in the array: 10
Enter 10 elements of the array:
1
2
3
4
5
6
7
8
9
10
Current array: 1 2 3 4 5 6 7 8 9 10
Enter the position of the element to update (1 to 10): 5
Enter the new value: 99
Do you want to update another element? (1 for Yes, 0 for No): 0
Final array: 1 2 3 4 99 6 7 8 9 10
PS C:\Users\Hero\Desktop\coding\c>
```
- Bottom Status Bar:** Displays the current file path as `coding/c`, the mode as `Debug`, and the encoding as `UTF-8`. It also shows the current line and column as `Ln 22, Col 1` and the number of spaces as `Spaces: 4`.