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

int main()
{
    int* ptr;
    int n, i;

    printf("Enter number of elements:");
    scanf("%d",&n);
    printf("Entered number of elements: %d\n", n);

    ptr = (int*)malloc(n * sizeof(int));

    if (ptr == NULL) {
        printf("Memory not allocated.\n");
        exit(0);
    }
    else {


        printf("Memory successfully allocated using malloc.\n");

        for (i = 0; i < n; ++i) {
            ptr[i] = i + 1;
        }


        printf("The elements of the array are: ");
        for (i = 0; i < n; ++i) {
            printf("%d, ", ptr[i]);
        }
    }

    return 0;
}
```