```
• • •
               int n;
              // Input the number of elements in the array {\bf printf("Enter the number of elements in your array: ");}
              // Allocate memory for the array
int *ptr = (int *)malloc(n * sizeof(int));
                     // Check if memory allocation is successful
printf("Memory allocation failed.\n");
              // Input array elements
printf("\nEnter %d integers:\n", n);
for (int i = 0; i < n; i++)</pre>
               free(ptr);
              // Initialize min and max with the first element of the array \min = \max = *ptr;
                      if (*(ptr + i) < min)
    min = *(ptr + i);
if (*(ptr + i) > max)
    max = *(ptr + i);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/Dynamic_N
$ ./question1
Enter the number of elements in your array: 5

Enter 5 integers:
12 -3 43 6 9

The maximum number is 43.
The minimum number is -3.
```

```
int main()
         int n;
              printf("Memory allocation failed.\n");
return 1; // Exit the program with an error code
         avg = sum / n;
         printf("The sum of the marks is %.2f\n", sum);
         free(p);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/Dynamic_N
• $ ./question2
How many courses of a student? 5
Enter marks of each course:
45 65.44 12 90 87.5
The sum of the marks is 299.94
The average marks is 59.99

manish@fedora: ~/vs-code/bca-programming-repo/C/Dynamic_N
• $ ■
```

```
#include <stdlib.h>
int main()
    int *ptr = (int *)calloc(n, sizeof(int));
    if (ptr == NULL)
        printf("Memory allocation failed.\n");
    printf("Enter numbers:\n");
             if (*(ptr + j) > *(ptr + j + 1))
                 int temp = *(ptr + j);
                 *(ptr + j + 1) = temp;
    printf("\nSorted List is:\n");
    free(ptr);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/Dynamic_N
• $ ./question3
How many numbers: 5
Enter numbers:
5 4 3 2 1

Sorted List is:
1 2 3 4 5 %

manish@fedora: ~/vs-code/bca-programming-repo/C/Dynamic_N
```