PF-LAB-7-ASSIGNMENT

```
c prob1.c > ...

1  #include <stdio.h>
2  int main() {
3     int n, sum = 0;
4     printf("Enter the number of elements in the array: \n");
5     scanf("%d", &n);
6     int arr[n];
7     printf("Enter %d elements:\n", n);
8     for(int i = 0; i < n; i++) {
9         scanf("%d", &arr[i]);
10         sum += arr[i];
11     }
12     printf("\nSum of elements: %d\n", sum);
13     return 0;
14 }</pre>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>gcc prob1.c -o prob1.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>prob1.exe

Enter the number of elements in the array:
5
Enter 5 elements:
1
5
2
6
8
Sum of elements: 22
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>gcc prob2.c -o prob2.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>prob2.exe

Enter the number of elements in the array: 4

Enter 4 elements:

1

4

2

7

Array in reverse order: 7 2 4 1

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>
```

```
c prob3.c > 😚 main()
      #include <stdio.h>
     int main() {
         int n, min, max;
          printf("Enter the number of elements in the array: ");
          scanf("%d", &n);
          int arr[n];
          printf("Enter %d elements:\n", n);
          for(int i = 0; i < n; i++) {
              scanf("%d", &arr[i]);
          printf("Array: ");
          for(int i=0; i<n; i++) {</pre>
             printf("%d ", arr[i]);
          min = max = arr[0];
          for(int i = 1; i < n; i++) {
              if(arr[i] < min) {
17
                  min = arr[i];
              if(arr[i] > max) {
                  max = arr[i];
          printf("\nMinimum Number = %d\n", min);
          printf("Maximum Number = %d\n", max);
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>gcc prob3.c -o prob.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>prob3.exe
Enter the number of elements in the array: 6
Enter 6 elements:

12
422
12
422
31
22
Array: 12 422 12 422 31 22
Minimum Number = 12
Maximum Number = 422

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>
```

```
#include <stdio.h>
2 \sim void main() \{
         int n;
         int freq[100] = {0};
         printf("Enter the number of elements in the array: ");
         scanf("%d", &n);
         int arr[n];
         printf("Enter %d elements: \n", n);
         for(int i=0; i<n; i++) {</pre>
             scanf("%d", &arr[i]);
             freq[arr[i]]++;
         printf("Array: ");
         for(int i=0; i<n; i++) {
             printf("%d ", arr[i]);
         printf("\nFollowing elements are occurring more than once: ");
         for(int i = 0; i < 100; i++) {
             if (freq[i] > 1) {
                 printf("%d ", i);
         printf("\n");
23
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>gcc prob4.c -o prob4.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>prob4.exe

Enter the number of elements in the array: 6

Enter 6 elements:
2
5
1
5
9
2
Array: 2 5 1 5 9 2

Following elements are occurring more than once: 2 5

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-7>
```