

Question 1:

```
1 #include<stdio.h>
2
3 int main(){
4     int size;
5     int sum = 0;
6     printf("Enter the array size : ");
7     scanf("%d",&size);
8     int new_array[size];
9     printf("Enter you array elements \n");
10
11
12
13     for(int i = 0; i < size; i++){
14         printf("element %d : ", (i+1));
15         scanf("%d", &new_array[i]);
16         sum = sum + new_array[i];
17     }
18     printf("The sum of array elements is : %d", sum);
19
20     return 0;
21 }
```

```
C:\Users\Mahad\Desktop\lab 7\1.exe
Enter the array size : 10
Enter you array elements
element 1 : 0
element 2 : 2
element 3 : 1
element 4 : 3
element 5 : 4
element 6 : 5
element 7 : 6
element 8 : 7
element 9 : 8
element 10 : 9
The sum of array elements is : 45
-----
Process exited after 19.03 seconds with return value 0
Press any key to continue . . .
```

Question 2:

```
1.c x 2.c x 3.c x 4.c x
1 #include<stdio.h>
2
3
4 int main(){
5     int size;
6
7     int sum = 0;
8     printf("Enter the array size : ");
9     scanf("%d",&size);
10    int first_array[size];
11    printf("Enter you array elements \n");
12
13
14
15    for(int i = 0; i < size; i++){
16        scanf("%d",&first_array[i]);
17    }
18
19    printf("Reverse elements are : ");
20    for(int i = (size-1); i >= 0; i--){
21        printf("%d : ", first_array[i]);
22    }
23
24
25    return 0;
26
27
28 }
```

```
C:\Users\Mahad\Desktop\lab 7\2.exe
Enter the array size : 7
Enter you array elements
7
5
8
4
8
4
8
Reverse elements are : 8 : 4 : 8 : 4 : 8 : 5 : 7 :
-----
Process exited after 19.18 seconds with return value 0
Press any key to continue . . .
```

Question 3:

```
1 #include<stdio.h>
2
3
4 int main(){
5     int size;
6     printf("Enter array size : ");
7     scanf("%d",&size);
8     int array[size];
9
10    printf("Enter array elements : ");
11    for(int i = 0; i < size; i++){
12        scanf("%d",&array[i]);
13    }
14    int min, max;
15    min = array[0];
16    max = array[0];
17
18    for(int i = 0; i < size; i++){
19        if(array[i] < min){
20            min = array[i];
21        } else if(array[i] > max){
22            max = array[i];
23        }
24    }
25    printf("max is : %d\n", max);
26    printf("min is : %d", min);
27
28
29
30 }
```

```
C:\Users\Mahad\Desktop\lab 7\3.exe
Enter array size : 8
Enter array elements : 45
25
15
75
98
100
75
48
max is : 100
min is : 15
-----
Process exited after 14.47 seconds with return value 0
Press any key to continue . . .
```

Question 4:

```
1 #include<stdio.h>
2
3 int main() {
4     int size;
5     printf("Enter array size: ");
6     scanf("%d", &size);
7
8     int array[size];
9
10    printf("Enter array elements (0 to %d):\n", size - 1);
11    for (int i = 0; i < size; i++) {
12        scanf("%d", &array[i]);
13    }
14
15
16    int count[size];
17    for (int i = 0; i < size; i++) {
18        count[i] = 0;
19    }
20    for (int i = 0; i < size; i++) {
21        count[array[i]]++;
22    }
23    printf("Numbers in array that occur more than once: ");
24    int found = 0;
25    for (int i = 0; i < size; i++) {
26        if (count[i] > 1) {
27            printf("\n%d ", i);
28            found = 1;
29        }
30    }
31
32    if (found == 0) {
33        printf("None");
34    }
35
36    return 0;
}
```

```
C:\Users\Mahad\Desktop\lab 7\Untitled1.exe
Enter array size: 7
Enter array elements (0 to 6):
5
4
6
5
1
4
3
Numbers in array that occur more than once:
4
5
-----
Process exited after 15.03 seconds with return value 0
Press any key to continue . . .
```