Programming Fundamentals

Lab Task#07:

Question_01:

```
Question_01.c > 😭 main()
    #include <stdio.h>
    int main()
         int size, sum = 0;
         printf("Enter the number of values You want to enter:");
         scanf("%d", &size);
         int arr[size];
         for (int i = 0; i < size; i++)
             printf("Enter the value %d:", i + 1);
             scanf("%d", &arr[i]);
11
             sum += arr[i];
12
13
         printf("The sum of the inputted values is %d", sum);
15
         return 0;
```

C:\Windows\system32\cmd.exe

```
Enter the number of values You want to enter:5
Enter the value 1:1
Enter the value 2:2
Enter the value 3:3
Enter the value 4:4
Enter the value 5:5
The sum of the inputted values is 15
Press any key to continue . . . _
```

Question_02:

```
Question_02.c > 分 main()
      #include <stdio.h>
      int main()
          int size;
          printf("Enter the number of values You want to enter:");
          scanf("%d", &size);
       int arr[size];
          for (int i = 0; i < size; i++)
  8
              printf("Enter the value %d :", i + 1);
 11
              scanf("%d", &arr[i]);
 12
 13
          printf("The elements entered in reversed order are:");
 14
          for (int i = size - 1; i >= 0; i--)
 15
              printf("%d", arr[i]);
 17
          return 0;
 19
```

C:\Windows\system32\cmd.exe

```
Enter the number of values You want to enter:5
Enter the value 1 :1
Enter the value 2 :2
Enter the value 3 :3
Enter the value 4 :4
Enter the value 5 :5
The elements entered in reversed order are:54321
Press any key to continue . . . _
```

Question_03:

```
C Question_03.c > 分 main()
      #include <stdio.h>
      int main()
          int size, min, max;
          printf("Enter the number of values You want to enter:");
          scanf("%d", &size);
          int arr[size];
          for (int i = 0; i < size; i++)</pre>
              printf("Enter the value %d:", i + 1);
              scanf("%d", &arr[i]);
          min = arr[0];
          max = arr[0];
          for (int i = 0; i < size; i++)
              if (min >arr[i])
                  min = arr[i];
              if (max < arr[i])</pre>
                  max = arr[i];
          printf("The minimum and maximum values inputted are %d and %d", min, max);
          return 0;
```

C:\Windows\system32\cmd.exe

```
Enter the number of values You want to enter:5
Enter the value 1:98
Enter the value 2:13
Enter the value 3:56
Enter the value 4:99
Enter the value 5:25
The minimun and maximum values inputted are 13 and 99
Press any key to continue . . . _
```

Question_04:

```
Question_U4.c > 🗘 main()
     #include <stdio.h>
     int main()
         int size, i, max = 0;
         printf("enter size of array:");
         scanf("%d", &size);
         int arr 1[size];
         for (i = 0; i < size; i++)
             printf("enter the element %d = ", i + 1);
             scanf("%d", &arr_1[i]);
             if (arr_1[i] > max)
                 max = arr_1[i];
         int arr_2[max + 1];
         for (i = 0; i <= max; i++)
             arr_2[i] = 0;
         for (i = 0; i < size; i++)
             arr_2[arr_1[i]]++;
         for (i = 0; i <= max; i++)
30
             if (arr_2[i] > 1)
                 printf("%d occur more than once\n", i);
```

enter size of array:5 enter the element 1= 6 enter the element 2= 6 enter the element 3= 3 enter the element 4= 2 enter the element 5= 1 6 occur more than once Press any key to continue . . .