TUTORIALS – 9
(MODULE – 3)
TOPIC: ARRAYS

1. Write a C program to input n numbers in an array, calculate the sum of all even numbers and all
odd numbers in the array and print the larger sum.
Example: If the array contains the following elements: 2, 3, 3, 5, 4, 8, 7, 11, 2
The sum of all even
elements is 2+4+8+2=16 Sum of all odd elements is 3+3+5+7+11=29 Therefore,
the output should be 29.

main.c   Save   Run

```c
//TUTORIALS - 9
#include <stdio.h>
int main()
{
    int num, i;
    printf("Enter the number of elements in the array: ");
    scanf("%d", &num);

    int array[num];
    printf("Enter Elements:\n", num);
    for(i = 0; i<num; i++)
    {
        scanf("%d", &array[i]);
    }
```

```c
main.c                                    [ ]   ☼   Save      Run

16        int Even_S = 0, Odd_S = 0;
17        for(i = 0; i < num; i++)
18        {
19            if(array[i]%2 == 0)
20            {
21                Even_S += array[i];
22            }
23            else
24            {
25                Odd_S += array[i];
26            }
27        }
28
29        printf("Sum of Even Number is %d\n", Even_S);
30        printf("Sum of Odd Number is %d\n", Odd_S);
31
32        if(Even_S > Odd_S)
33        {
34            printf("The Large Sum is %d\n", Even_S);
35        }
36        else
37        {
38            printf("The Large Sum is %d\n", Odd_S);
39        }
40
41        return 0;
42    }
```

```

/tmp/WVBKDRDQfq.o
Enter the number of elements in the array: 7
Enter Elements:
1
4
9
2
10
23
7
Sum of Even Number is 16
Sum of Odd Number is 40
The Large Sum is 40
```