

**ASSIGNMENT**  
**COM-101**  
**Introduction to C Programming**

**By**

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**Model Institute of Engineering & Technology (Autonomous)**

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**1. Write a C program to find the sum of elements in an array.**

**Ans) Code**

```
#include <stdio.h>
int main() {
    int n, sum = 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++) {
        scanf("%d", &arr[i]);
    }

    for (int i = 0; i < n; i++) {
        sum += arr[i];
    }

    printf("Sum of elements: %d\n", sum);

    return 0;
}
```

**Output**

```
Enter the number of elements in the array: 5
Enter 5 elements:
3
2
1
4
5
Sum of elements: 15
```

**Q2) Write the program for calculator using elseif and do while.**

**Code**

```
Sol) #include <stdio.h>

int main() {
    char operator;
    double num1, num2, result;
    do {
        printf("Enter an operator (+, -, *, /) or 'q' to quit: ");
        scanf(" %c", &operator);
        if (operator == 'q') {
            break;
        }
        printf("Enter two numbers: ");
        scanf("%lf %lf", &num1, &num2);
        if (operator == '+') {
            result = num1 + num2;
        } else if (operator == '-') {
            result = num1 - num2;
        } else if (operator == '*') {
            result = num1 * num2;
        } else if (operator == '/') {
            if (num2 != 0) {
                result = num1 / num2;
            } else {
                printf("Error: Division by zero\n");
                continue;
            }
        } else {
            printf("Invalid operator\n");
            continue;
        }
        printf("Result: %.2lf\n", result);
    } while (1);
    printf("Calculator closed.\n");
    return 0;
}
```

**Output**

```
Enter an operator (+, -, *, /) or 'q' to quit: +  
Enter two numbers: 3  
4  
Result: 7.00
```