Task-A

1. Initialize an array of 10 elements and print the array elements both in normal and reverse order.

For example,
Input: `12 32 43 1 54 53 15 64 3 13`
Output: `13 3 64 15 53 54 1 43 32 12`

2. Initialize an integer array of 10 elements and print how many numbers are odd and how many numbers are even.

For example,
Input: `12 32 43 1 54 53 15 64 3 13`
Output:
```
6 odd numbers
4 even numbers
```

3. Write a function that takes TWO parameters to print all the odd numbers between a given ranges. Input the starting value of the range and ending value of the range. Then, send them as the parameters to your function.

For example,
Output:
```
Starting value: 12
Ending value: 23
13 15 17 19 21 23
```

4. Write a program to perform matrix addition between 3 matrices.

For example,
Input:
```
12 13 14      1 2 3      101 104 107
15 16 17      4 5 6      102 105 108
18 19 20      7 8 9      103 106 109
```
Output:
```
114 119 124
121 126 131
128 3   138
```

5. Write a function to calculate factorial of a given integer number if that number is a prime number. If it is not, it will give an error.

For example,
Scenario 1
Input: `5`
Output: `120`
Scenario 2
Input: `4`
Output: `Error! Not a prime number.`

Task-B

1. Find the average value of the elements of an array.
2. Find the minimum and maximum value of the elements of an array.
3. Take two strings as your first and last name, then concatenate the two strings together so that you can find your full name:
   e.g. First name = “Mahfujur” and Lastname = “Rahman”
   output: Full name = “Mahfujur Rahman”

Task-C

1. Write a C/C++ program for splitting a string by a '-' (hyphen).
2. Write a C/C++ program for splitting a string by a ' ' (space).
3. Write a C/C++ program to detect keyword or not keyword.
4. Write a C/C++ program to find if the given input string is a valid identifier.
5. Write a C/C++ program to find whether the Given Input is Numeric Constant or Not.
6. Write a C/C++ program to find the Operators from the Given Input string c code.
7. Write a C/C++ program to determine whether the Given Input is Comment or Not.