Logic Building Assignment : 11

Complete below code snippets it contains only service provider function.

Write entry point function to call below helper functions separately.

Create separate visual Studio project for each problem statement separately.

Each project should contains below things
- **File which contains entry point function**
- **File which contains helper function**
- **File which works as header file**

1. Accept array from user and reverse each number of that array.

Input : 89 687 56 549 87 9

Output : 98 786 65 945 78 9

```
void ReverseArray(int arr[], int iSize)
{
	// Traverse array
	// Apply the logic to reverse the number
	// Replace that reverse number at same place
}
```

2. Accept array from user and replace each member with summation of its digit.

Input : 89 687 56 549 87 9

Output : 17 21 11 18 15 9

```
void SumArray(int arr[], int iSize)
{
	// Traverse array
	// Apply the logic to add each digit of number
	// Replace that summation at same place
}
```

4. Accept array of characters from user and count number of capital characters.

Input : b N j B R b A d G G

Output : 6

```
int ArrayCapital(char arr[], int iSize)
{
      // Traverse array and count capital characters
}
```

5. Accept marks of N students from user and display class of each student.

Less than 35 - Fail
Less than 50 - Pass class
Less than 60 - Second class
Less than 70 - First class
Greater than 70 - First class with Distinction

Input : 67.3 45.8 88.9 77.5 55.2

Output : 67.3 First class
45.8 Pass class
88.9 First class with Distinction
77.5 First class with Distinction
55.2 Second class

```
void Percentage(float arr[], int iSize)
{
      // Traverse Both the array and display its summation
}
```

6. Accept array of characters from user and replace each capital character with its corresponding small character.

Input : b N j B R b A d G G

Output : b n j b r b a d g g

```
void ArrayReplace(char arr[], int iSize)
{

}
```

7. Accept array of characters from user and replace each capital character with its corresponding small character.

Input : b N e B R b A i G i

Output : 4

```
int ArrayCountVowels(char arr[], int iSize)
{

}
```

8. Accept array of characters from user and accept one character. Return occurrence of that character without considering case.

Input : b N e B R b A i G i B
b

Output : 4

```
int Search(char arr[], int iSize)
{

}
```

9. Accept array of characters from user and return difference between frequency of capital and frequency of small characters.

Input : b N e B R b A I O G i

Output : 3 (7 - 4)

```
int Diffrence(char arr[], int iSize)
{

}
```

10. Accept array from user and display below pattern.

Input : 8 9 7 6 4 2 4

Output :

```
* * * * * * * *
* * * * * *
```

```
*     *     *     *
*     *
*     *     *     *
```

```
void Pattern (int arr[], int iSize)
{
        // Logic
}
```