Logic Building Assignment : 2

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.Write a program which accept one number from user and print that number of even numbers on screen.

Input : 7
Output : 2 4 6 8 10 12 14

```
void PrintEven(int iNo)
{
	if(iNo <= 0)
	{
		return;
	}
	// Logic
}
```

2. Write a program which accept number from user and print even factors of that number.

Input : 24
Output : 2 4 6 8 12

```
void DisplayEvenFactor(int iNo)
{
```

```
        if(iNo <= 0)
        {
                iNo = -iNo;
        }
        int i = 0;
        for(i = 1; i<= __ ;i++)
        {
                if(_________)
                {

                }
        }
}
```

3. Write a program which accept two numbers from user and display its common factors.

Input : 12 18
Output : 2 3 6

```
_______ DisplayComFactor(int iNo1, int iNo2)
{
        ____ i = 1;

        while( (i<= iNo1/2) && (_______) )
        {
                if((iNo1%i == 0) && ( ______))
                printf("%d",i);
                i++;
        }
}
```

4. Write a program which accept two numbers from user and display its largest common factors.

Input : 12 18
Output : 6

```
_______ DisplayComFactorLarge(int iNo1, int iNo2)
{
```

```
        // Logic

}
```

5. Accept two characters from user and swap contents of that two characters.

```
void Swap(char *ptr1, char *ptr2)
{
        char temp;
        // Logic
}

int main()
{
        char ch1 = 'A',ch2 = 'B';
        Swap(&ch1,&ch2);

        printf("%c %c",ch1,ch2);        // B   A
        return 0;
}
```

6. Accept two integers from user and swap contents of that two integers without using temporary variable.

```
void Swap(int *ptr1, int *ptr2)
{
        // Logic
}

int main()
{
        int no1 = 11,no2 = 21;
        Swap(&no1,&no2);

        printf("%d %d",no1,no2);      // 21  11
        return 0;
}
```

7. Accept one number from user and print that number of * on screen.

```
void Accept(int iNo)
{
	while( iNo > _______ )
	{
		printf(" * ");
		iNo —;
	}
}
```

8. Accept one character from user and convert case of that character.

```
Input :		a
Output :	A

Input :		D
Output :	d

_______ DisplayConvert ( _____ CValue)
{
	if(_______)
	{
		printf("% ___" , _____);
	}
	else if(_____)
	{
		printf("% ___" , _____);
	}
}
```

9. Accept one number and print that number of elements from Fibonacci series.

```
Input :		9
Output :	1	1	2	3	5	8	13	21	43

_____ Fibonacci (_____ iNo)
{
	// Logic
}
```

10. Accept on character from user and check whether that character is vowel (a,e,i,o,u) or not.

Input : E
Output : TRUE

Input : d
Output : FALSE

```
_________ ChkVowel ( char _____)
{
        if(_______________)
        {
                ____________________
        }
        else
        {
                ____________________
        }
}
```