Logic Building Assignment : 5

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 return smallest digit.

Input : 712
Output : 1

Input : 7520
Output : 0

```
UINT MinDigit (LONG iNo)
{
	// Logic
}
```

2. Accept number from user and print below pattern.

Input : 4
Output : * * * * # # # #

```
void Pattern (int iNo)
{
	int int = o;
	for(———; ———; ———)
	{
		// Logic
	}

	for(———; ———; ———)
	{
		// Logic
```

```
    }
}
```

3. Write a program which accept number from user and print below pattern as.

Input : 6
Output : * $ * $ * $ * $ * $ * $

```
void Pattern (int iNo)
{
    // Logic
}
```

4. Accept length of side from user and calculate area of square.

Input : 4.2
Output : 17.64

```
float AreaSquare(float fLength)
{
    // Logic
}
```

5. Accept radius of circle from user and calculate its area (PI*R*R).

Input : 4.2
Output : 17.64

```
float AreaCircle(float fRadious)
{
    float pi = 3.14159;

    // Logic
}
```

6. Accept distance in centimetre and convert into meter.
1 meter = 100 Centimeter

Input : 87
Output : 0.87

```
float CeToMe (int iNo)
{
	// Logic
}
```

7. Accept radius of circle from user and calculate its circumference (2*PI*R).

Input : 4.2
Output : 26.39

```
float AreaCircle(float fRadious)
{
	float pi = 3.14159;

	// Logic
}
```

8. Cost of land is 560 rupees per square feet. Accept number of square feet from user and calculate total cost.

Input : 87
Output : 48720

```
LONG Estimate(LONG iNo)
{
	// Logic
}
```

9. Accept length and wide of rectangle and calculate its area (Length * Width).

Input : 4.2 8.9
Output : 37.38

```
float AreaRect(float fLength, float fWidth)
{
	float pi = 3.14159;

	// Logic
}
```

10. Write a program which accept length of three sides of triangle and check whether it is Pythagorean triple or not.

Input : 3 4 5
Output : TRUE

Input : 9 2 8
Output : FALSE

```
BOOL ChkPythagorus(int iNo1, int iNo2, int iNo3)
{
    // Logic
}
```