Logic Building Assignment : 17

Complete below code snippets it contains only service provider function.

Write entry point function to call below helper functions separately.

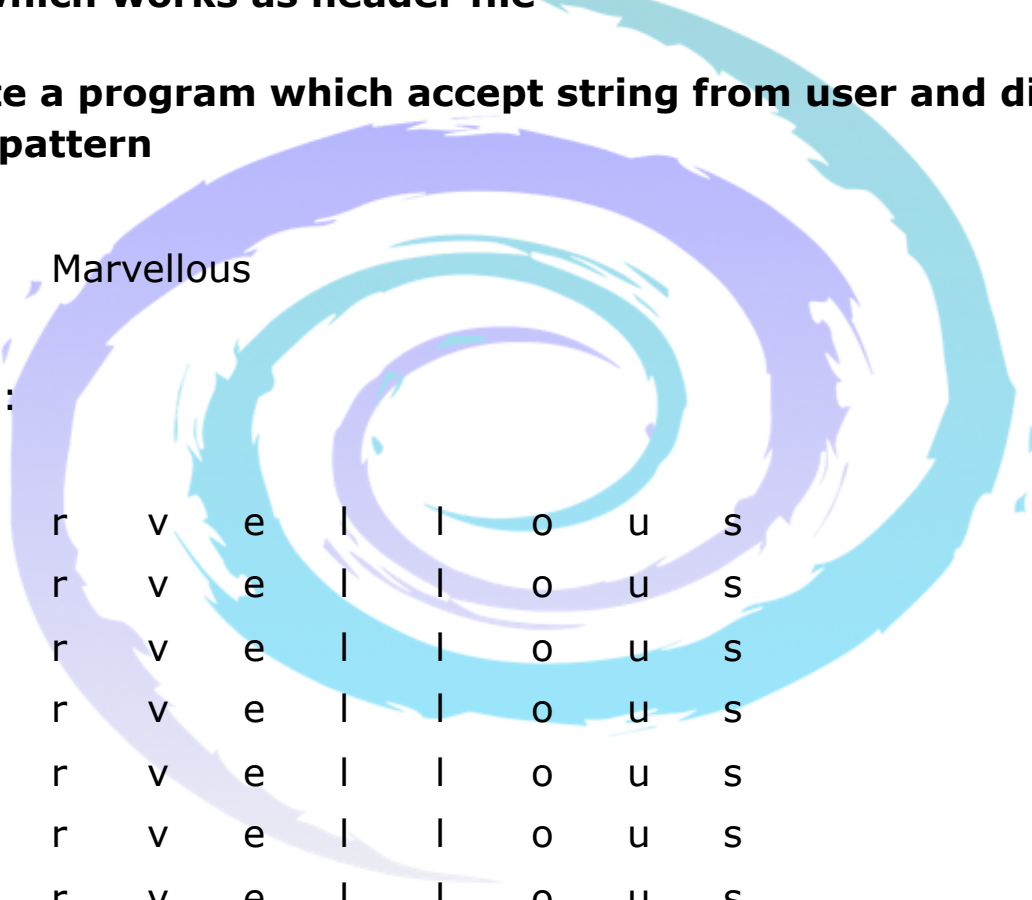**Create separate visual Studio project for each problem statement separately.**

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 string from user and display below pattern

Input :   Marvellous

Output :

```
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
M    a    r    v    e    l    l    o    u    s
```

Input : Hello

Output :

H   e   l   l   o

H   e   l   l   o

H   e   l   l   o

H   e   l   l   o

H   e   l   l   o


```
void Pattern(char *str)
{
      // Logic
}
```

2. Write a program which accept string from user and display below pattern

Input :   Marvellous

Output :

M   a   r   v   e   l   l   o   u   s

M   a   r   v   e   l   l   o   u

M   a   r   v   e   l   l   o

M   a   r   v   e   l   l

M   a   r   v   e   l

M   a   r   v   e

M   a   r   v

M   a   r

M   a

M

Input : Hello

Output :

H   e   l   l   o
H   e   l   l
H   e   l
H   e
H

```
void Pattern(char *str)
{
    // Logic
}
```

3. Write a program which accept string from user and display below pattern

Input :   Marvellous

Output :

M
M   a
M   a   r
M   a   r   v
M   a   r   v   e
M   a   r   v   e   l
M   a   r   v   e   l   l
M   a   r   v   e   l   l   o
M   a   r   v   e   l   l   o   u
M   a   r   v   e   l   l   o   u   s

Input : Hello

Output :

```
H
H    e
H    e    l
H    e    l    l
H    e    l    l    o
```

void Pattern(char *str)
{
      // Logic
}

4. Write a program which accept string from user and display below pattern

Input : Hello

Output :

```
H    e    l    l    o
H    *    *    *    o
H    *    *    *    o
H    *    *    *    o
H    e    l    l    o
```

void Pattern(char *str)
{
      // Logic
}

5. Write a program which accept string from user and display below pattern

Input : Hello

Output :

Input : Hello

```
H    @    @    @    @
H    e    @    @    @
H    e    l    @    @
H    e    l    l    @
H    e    l    l    o
```

```
void Pattern(char *str)
{
      // Logic
}
```