Pre-requisites

Basic C Programming
Data types, If else conditions, For loop, etc

Why we need patterns, Need for loops,

```
TDM_001_Square_Pattern
Enter No of Rows: 4
TDM_002_Star_Pattern
Enter No of Rows: 5
* - 1
* * * * * - 5
TDM_003_Star_Double
Enter No of Rows: 4
* * - 1 X 2
* * * * * * * * - 4X 2
H/W 1
* * * - 1 X 3
```

```
TDM_004_Star_Pattern_decreasing
Enter No of Rows: 4
* * * * 4
* * * 3
* *2
*1
H/W 2
TDM_005_Number
Enter No of Rows: 5
12345
12345
12345
12345
12345
H/W 3
11111
22222
33333
44444
55555
TDM_006_number_pattern
Enter limit: 5
1
1 2
```

1 2 3 1 2 3 4 1 2 3 4 5

```
H/W 4
2 2
3 3 3
4 4 4 4
5 5 5 5 5
TDM_007_//Decreasing Number Pattern
Enter limit: 5
5
4 5
3 4 5
2 3 4 5
1 2 3 4 5
H/W 5
//Decreasing Number Pattern
Enter limit: 5
5
5 4
5 4 3
5 4 3 2
5 4 3 2 1
TDM_008_Star
Enter No of Rows: 5
*1 - 1 (1-1)*2+1=1
* * *3 -2 - (2-1)*2+1=3
* * * * *5 - 3
* * * * * * * * * * 7
H/W 6
Enter No of Rows: 5
1
123
```

12345 1234567 123456789

TDM_009_Alphabets Enter No of Rows : 5 A 97 A B 98 A B C 99 A B C D 100

A B C D E 101

H/W 7

F or E Patterns

Question 1

```
* * * 3

*

* * * * * * * 6

*

* * * * * * * * * * 9

*
```

Question 2

X X X X X X - 6

X 1

XXXX4

X 1

XX 2

X 1

Question 3

```
* * 2
```

* 1

* * * * 4

* 2

*

* * * * * * 6

* 3

*

*

```
Question 4
  * 1
  **** 4
  *2
  *
  ****** 8
  * 3
  *
  ******* 12 (3 X 4)
  Question 5 1, 3, 6, 10, 15
                2 3
  * 1
  * 1 X 1
  * * * 3
  * * 2X2
  * *
  **** 5
  * * * 3 X 3
  * * *
  * * *
Question 6
   **** 5
   * 3
   *
   ******* 10
   *
```

```
*6
   Question 7
  * * 2
  * 1
  * * * * * 5
  * *
  * * 2 X 2
  * * * * * * * 8
  * * *
  * * *
  * * * 3 X 3
  * * * * * * * * * * 11
  Skip 4 X 4
  2 (3X1-1)
  5 (3*2-1
  8 (3*3-1
  11 (3*4-1)
```

Question 8

Else 5*

* 1 x 1

* *

* * *

* * *

4X4 skip