

1. Write a program to display the following. Allow the user to provide input as like,

Enter a value: 10 (if the user given 10, your application as to generate the following figure)

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

2. Write a program to generate multiplication times table as like,

```
Multiplication Table
*****
1  2  3  4  5  6  7  8  9  10
2  4  6  8  10 12 14 16 18 20
3  6  9  12 15 18 21 24 27 30
4  8  12 16 20 24 28 32 36 40
5  10 15 20 25 30 35 40 45 50
6  12 18 24 30 36 42 48 54 60
7  14 21 28 35 42 49 56 63 70
8  16 24 32 40 48 56 64 72 80
9  18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100
```

3. Write a program to generate multiplication times table as per the user input.

Enter a number : 3

```
Multiplication table: 3
*****
1 x 3 = 3
2 x 3 = 6

10 x 3 = 30
```

4. Write a program to print the following,

a)

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

b) 1  
 1 2  
 1 2 3  
 1 2 3 4

c) 1  
 2 2  
 3 3 3  
 4 4 4 4

d) \*  
 \* \*  
 \* \* \*  
 \* \* \* \*  
 \* \* \*  
 \* \*  
 \*

e) \*  
 \* \*  
 \* \* \*  
 \* \* \* \*

f) \*  
 ~ ~  
 \* \* \*  
 ~ ~ ~ ~  
 \* \* \* \* \*

5. Write a program to create an integer array and allow the user to find a value from the list. Please follow the output format.

Enter a[0] value : 23  
Enter a[1] value : 3  
Enter a[2] value : 43  
Enter a[3] value : 25  
Enter a[4] value : 21  
Enter a[5] value : 8

Given list : 23,3,43,25,21 and 8.

Enter your search value: 25

Search Result : your value is located in 4<sup>th</sup> place .

Or

Enter your search value: 5

Search Result: Not found.

6. Write a program to store 6 different random numbers in the list between 10 to 20. Allow the user to find their lucky number in two tries.