

Programming Fundamentals

Assignment 4

Dated: 12-3-2020

BS-SE'19, Morning

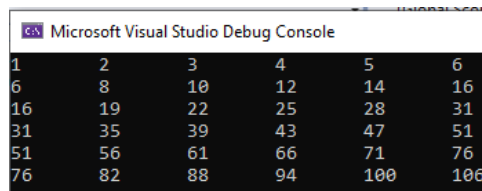
Total Marks: 35

Deadline: Saturday, 14-3-2020

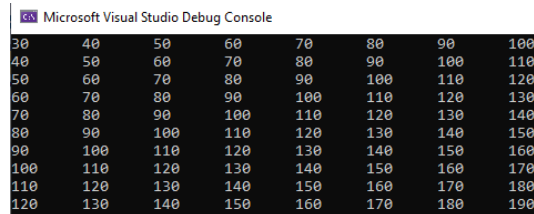
Submission guidelines:

- Email your .cpp file at natalia@pucit.edu.pk. Your email must have a subject "Assignment 4: **Roll number**", otherwise it will be discarded.
- The source code file should have the following naming convention: RollNumber.cpp. Files with invalid name will not be evaluated.
- Late submissions will not be entertained in any case

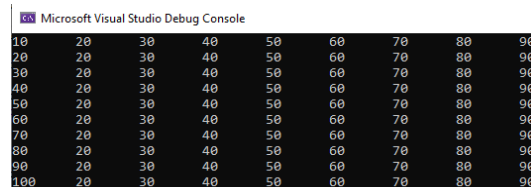
Write a program to print the following patterns using **two nested loops**



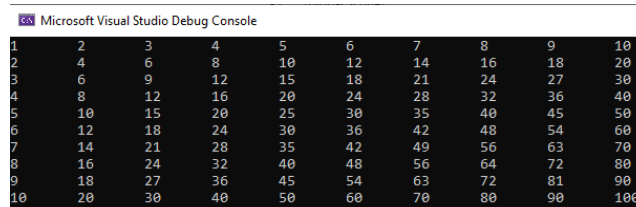
1	2	3	4	5	6
6	8	10	12	14	16
16	19	22	25	28	31
31	35	39	43	47	51
51	56	61	66	71	76
76	82	88	94	100	106



30	40	50	60	70	80	90	100
40	50	60	70	80	90	100	110
50	60	70	80	90	100	110	120
60	70	80	90	100	110	120	130
70	80	90	100	110	120	130	140
80	90	100	110	120	130	140	150
90	100	110	120	130	140	150	160
100	110	120	130	140	150	160	170
110	120	130	140	150	160	170	180
120	130	140	150	160	170	180	190



10	20	30	40	50	60	70	80	90
20	20	30	40	50	60	70	80	90
30	20	30	40	50	60	70	80	90
40	20	30	40	50	60	70	80	90
50	20	30	40	50	60	70	80	90
60	20	30	40	50	60	70	80	90
70	20	30	40	50	60	70	80	90
80	20	30	40	50	60	70	80	90
90	20	30	40	50	60	70	80	90
100	20	30	40	50	60	70	80	90



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

Microsoft Visual Studio Debug Console

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

Print the following pattern using at least two nested loops

Microsoft Visual Studio Debug Console

1	2	3
2	4	6
3	6	9

2	3	4
4	6	8
6	9	12

3	4	5
6	8	10
9	12	15

```

* * * * *
* * * *   * * * *
* * *     * * *
* *       * *
* *       * *
*         *
* *       * *
* * *     * *
* * * *   * * *
* * * *   * * *
* * * * *

```

Note:

You are not allowed to use more than one variable or character in a single cout statement. E.g. you cannot do the following

```
Cout<<var1<<" "<<var1+1<<" "; OR
```

```
Cout<<var1<<" "<<var2<<" ";
```

But you can use variables and arithmetic expressions, like

```
Cout<<var1*var2<<" "; OR
```

```
Cout<<(var1*2)+var2<<" ";
```