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

Microsoft Visual Studio Debug Console							
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		

80	40	50	60	70	80	90	100
0	50	60	70	80	90	100	116
0	60	70	80	90	100	110	120
0	70	80	90	100	110	120	130
0	80	90	100	110	120	130	140
0	90	100	110	120	130	140	150
0	100	110	120	130	140	150	160
00	110	120	130	140	150	160	170
10	120	130	140	150	160	170	180
20	130	140	150	160	170	180	190
	crosoft Visua		-				
10	20	30	40		i0 70	80	
.0 !0	20 20	30 30	40 40	50 6	70	80	9
.0 !0 !0	20 20 20	30 30 30	40 40 40	50 6	50 70 50 70	80 80	9 9
.0 !0 !0	20 20 20 20	30 30 30 30	40 40 40 40	50 6 50 6	i0 70 i0 70 i0 70	80 80 80	9 9 9
.0 !0 !0 !0	20 20 20 20 20	30 30 30 30 30	40 40 40 40 40	50 6 50 6 50 6	50 70 50 70 50 70 50 70	80 80 80 80	9 9 9 9
.0 10 10 10 10	20 20 20 20	30 30 30 30	40 40 40 40	50 6 50 6 50 6 50 6	i0 70 i0 70 i0 70	80 80 80	9 9 9 9
10 20 30 10 50 50	20 20 20 20 20 20 20	30 30 30 30 30 30	40 40 40 40 40 40	50 6 50 6 50 6 50 6 50 6	50 70 50 70 50 70 50 70 50 70	80 80 80 80 80	9 9 9 9 9 9
00 Mi 10 20 30 40 50 50 70 30 90 100	20 20 20 20 20 20 20 20	30 30 30 30 30 30 30	40 40 40 40 40 40 40	50 6 50 6 50 6 50 6 50 6 50 6	50 70 50 70 50 70 50 70 50 70 50 70	80 80 80 80 80 80	9 9 9 9 9

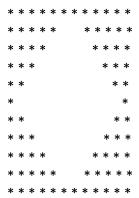
Microsoft Visual Studio Debug Console									
									10
				10	12	14	16	18	20
			12	15	18	21	24	27	30
		12	16	20	24	28	32	36	40
	10	15	20	25	30	35	40	45	50
	12	18	24	30	36	42	48	54	60
	14	21	28	35	42	49	56	63	70
	16	24	32	40	48	56	64	72	80
	18	27	36	45	54	63	72	81	90
.0	20	30	40	50	60	70	80	90	10

CiV.	licrosoft Visu	ual Studio De	bug Consol	e					
1	2	3	4	5	6	7	8	9	10
2				10	12	14	16	18	20
3			12	15	18	21	24	27	30
4		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		70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54		72	81	90
10	20	30	40	50	60	70	80	90	100

Print the following pattern using at least two nested loops

CAS M	licrosoft Visu	al Studio Debug Console			
1	2	3			
2 3	4	6			
3	6	9			
****	******	*****			
2	3	4			
2 4	6	8			
6	9	12			

3	4	5			
3 6 9	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<<" ";