



আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

Assignment

Assignment no- 13

Submission date- 06.05.2020

Course Title-Computer Programming 1 lab

Course Code: CSE- 1121

Submitted to-

Mr. Jamil As-ad

Assistant Lecturer, IIUC

Cell: 01626890190

jamilasad1@gmail.com

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

1. Given an integer **N**. Print whether it's Prime or not.

Sample Input	Sample Output
19	Prime
54	Not Prime
2	Prime

Code for above question :

```

Coding C
Auto saved at 16:30:05
RUN MENU

1 #include <stdio.h>
2 int main()
3 {
4     int n, x;
5     scanf("%d", &n);
6     x= 2;
7
8     /* Author: Md. Sorowar Mahabub Rabbay
9     Code for Assignment 13 ( 1 no.), Prime or not */
10
11     while(x<n/2)
12     {
13         if(n % x == 0)
14         {
15             printf("Not Prime\n");
16             break;
17         }
18         x++;
19     }
20     if(x >= n/2)
21     {
22         printf("Prime\n");
23     }
24
25     return 0;
26 }

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Compile Result

19
Prime

[Process completed - press Enter]

Compile Result

54
Not Prime

[Process completed - press Enter]

Compile Result

2
Prime

[Process completed - press Enter]

2. Number 5, 6 and 7 from sheet “Basic Patterns”.

6. Given an integer **N**. Print the following pattern.

Sample Input	Sample Output
3	<pre> ***** * * * * * *</pre>
4	<pre> ***** * * * * * * * * * *</pre>

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Code for above question :

```

Coding C
Auto saved at 16:35:43
RUN MENU

1 #include <stdio.h>
2 int main()
3 {
4     int row, rows, c, m, n, space;
5     scanf("%d", &n);
6     row = 1;
7     rows = n;
8
9     /* Author: Md. Sorowar Mahabub Rabbay
10    Code for Assignment 13 ( 6 no. of Basic pattern*/
11
12    while(rows >= 1)
13    {
14        space = 0;
15        while(space < n - rows)
16        {
17            printf(" ");
18            space++;
19        }
20        m = rows;
21        while(m <= 2*rows - 1)
22        {
23            printf("%c", m);
24            m++;
25        }
26        m = 0;
27        while(m < rows-1)
28        {
29            printf("%c", m);
30            m++;
31        }
32        printf("\n");
33        rows--;
34    }
35
36    return 0;
37 }

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Compile Result

```
3
* * * * *
  * * *
    *
```

[Process completed - press Enter]

Compile Result

```
4
* * * * * * *
  * * * * *
    * * *
      *
```

[Process completed - press Enter]

7. Given an integer **N**. Print the following pattern.

Sample Input	Sample Output
3	<pre> * *** ***** *** *</pre>
4	<pre> * *** ***** ***** ***** *** *</pre>

Code for above question :

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Coding C

RUN

MENU

Auto saved at 16:39:08

```

1 #include <stdio.h>
2 int main()
3 {
4     int row, rows, c, m, n, space;
5     scanf("%d", &n);
6     row = 1;
7
8     /* Author: Md. Sorowar Mahabub Rabbay
9     Code for Assignment 13 ( 6 no. of Basic pattern*/
10
11
12     while(row <= n)
13     {
14         c = 1;
15         while(c <= n-row)
16         {
17             printf(" ");
18             c++;
19         }
20
21         c = 1;
22         while(c <= 2*row - 1)
23         {
24             printf("%c", c);
25             c++;
26         }
27
28         printf("\n");
29         row++;
30
31     }
32

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

```

33     rows = n;
34
35     while(rows >= 1)
36     {
37         space = 0;
38         while(space < n - rows)
39         {
40             printf("  ");
41             space++;
42         }
43
44         /* Author: Md. Sorowar Mahabub Rabbay
45         Code for Assignment 13 ( 6 no. of Basic pattern*/
46
47         m= rows;
48         while(m <= 2*rows - 1)
49         {
50             printf(" * ");
51             m++;
52         }
53         m= 0;
54         while(m < rows-1)
55         {
56             printf(" * ");
57             m++;
58         }
59         printf("\n");
60         rows--;
61     }
62
63     return 0;
64 }

```

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)

Compile Result

3

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

[Process completed - press Enter]

Compile Result

4

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

[Process completed - press Enter]

Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

Department of CSE (Computer Science and Engineering)