

Assignment

Assignment no- 12

Submission date-05.05.2020

Course Title-Computer Programming 1 lab

Course Code: CSE-1121

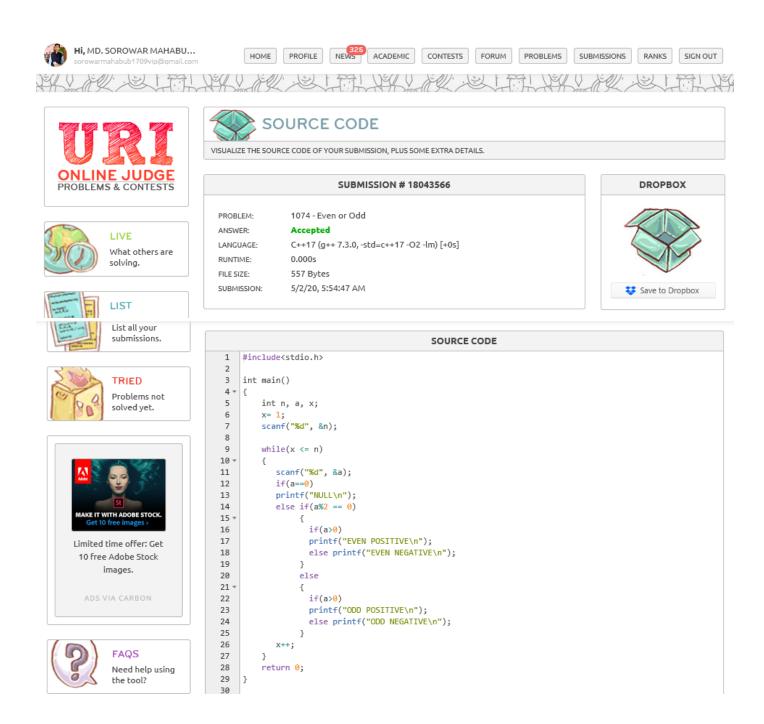
Submited toMr. Jamil As-ad
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Submitted by-

MD. SOROWAR MAHABUB RABBY

Matric ID: C201032, Section: A

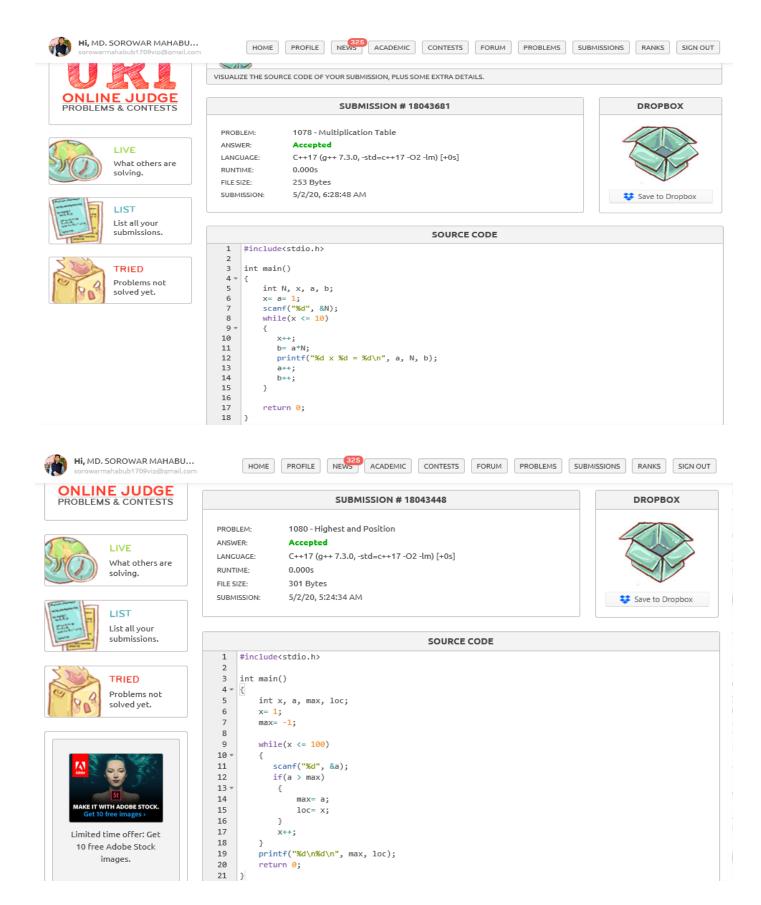
1. URI 1074, 1078, 1080



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2. Given an integer N. Print its digits separately.

Sample Input	Sample Output
123	1
	2
	3
54637	5
	4
	6
	3
	7

Code for the above question:

```
Coding C
                                               RUN
                                                      MENU
  Auto saved at 23:15:26
1#include<stdio.h>
2 #include<math.h>
₃#include<stdlib.h>
₄int main()
5 {
      int n,x,power,rslt, r, c, xx, m;
6
      scanf("%d",&x);
8
      //Author : M♂. $orowār MJhJ&യം RABBY
9
10
11
      m = x;
      r = 1;
12
      power = 0;
13
      while(x>0 \&\& r > 0)
14
      €
15
           xx = x%10;
16
           x = x/10;
17
           power +=1;
18
           r++;
19
      }
20
21
22
      power = power-1;
23
      while(power>=0)
25
      {
26
           rslt=(m/pow(10,power));
27
           m=fmod(m,pow(10,power));
28
           printf("%d\m", rslt);
29
30
           power-- ;
31
32
      return 0;
33
34
35 }
```

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Or(Code for the above question:),

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```
Coding C
                                                  RUN
                                                         MENU
  Auto saved at 04:16:52
1
2 #include<stdio.h>
3
₄int main()
5 {
      int x, r, ans;
6
      scanf(\mathbb{@}26dm, &x);
8
      //Author : Mo. Sorowär MJhJBOB RABBY
9
       /*আসসালামু আলাইকুম, স্যার, এ কোড'টার জন্য কোনো
10
      সমাধান আছে কী? এর সমস্যা হলো- এতে যে ডিজিট গুলো
11
      ইনপুট দেয়া হবে তার শেষে ০ থাকলে তাহলে output এ
12
      সে ০ টা আর দেখাচ্ছে না, তবে তা শুধু মাত্র হচ্ছে
13
      শেষ ডিজিট ০ হলে....*/
14
15
      while(x != 0)
16
      {
17
          r= r * 10;
18
          r = r + x%10;
19
          x = x/10;
20
      }
21
22
      while(r > 0)
23
      {
24
25
          ans= r%10;
26
          r = r/10;
27
          printf(\mathbb{@}%d\\n\mathbb{n}, ans);
28
      }
29
30
      return 0;
31
32 }
```

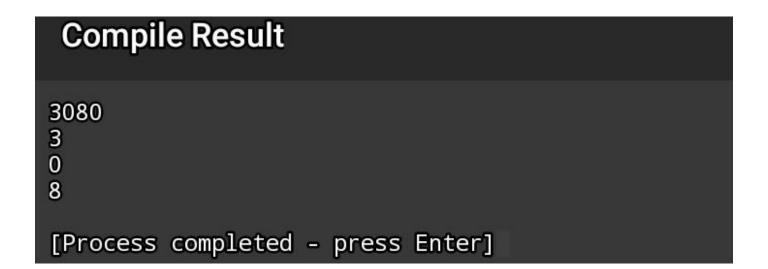
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```
Compile Result

123
1
2
3

[Process completed - press Enter]
```



- 3. Number 1, 2, 3, 5 from sheet "Basic Patterns".
- 1. Given an integer N. Print the following pattern.

Sample Input	Sample Output
3	***

4	***

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Code for the above question:

```
Coding C
                                                           RUN
                                                                   MENU
   Auto saved at 23:24:14
1#include<stdio.h>
₃int main()
4 {
        int N, M, x, y;
5
        //N= row, M= column
6
        x=1;
        scanf(\mathbb{@}3d\mathbb{m}, &N);
8
        while(x \le N)
9
        {
10
            y=1;
11
            while(y \le N)
12
13
                 printf(<sup>™©™</sup>);
14
                 y++;
15
16
            printf(<sup>™</sup>\m<sup>™</sup>);
17
            \chi++;
18
19
20
        return 0;
21
22 }
```

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```
Compile Result

3
***
***
***

[Process completed - press Enter]
```

```
Compile Result

4
****
****

****

[Process completed - press Enter]
```

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2. Given two integers N and M. Print an N x M square.

Sample Input	Sample Output
3 2	**
	**
3 4	***

Code for the above question:

```
Coding C
                                                   RUN
                                                          MENU
  Auto saved at 23:19:08
1#include<stdio.h>
2
₃int main()
4 {
      int N, M, x, y;
5
      //N= row, M= column
6
      x=1;
      scanf("%%%", &N, &M);
8
      while(x \le N)
9
      {
10
          y=1;
11
          while(y \le M)
12
13
              printf(<sup>©©©</sup>);
14
              y++;
15
16
          printf(™\m™);
17
          X++;
18
      }
19
20
      return 0;
21
22 }
```

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Compile Result 3 2 *** ** [Process completed - press Enter]

```
Compile Result

3 4
****

****

[Process completed - press Enter]
```

3. Given an integer N. Print the following pattern.

Sample Input	Sample Output
3	* ** **
4	* ** *** ***

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Code for the above question:

```
Coding C
                                                       RUN
                                                                MENU
  Auto saved at 23:20:12
1#include<stdio.h>
₃int main()
4 {
       int N, M, O, x, y, z;
5
       //N= row
6
       x=1;
       scanf("%d", &N);
8
       while(x \leq N)
9
       {
10
           y=1;
11
           while(y \leq x)
12
13
                printf(<sup>™</sup> );
14
                y++;
15
            }
16
           printf(<sup>™</sup>\m<sup>™</sup>);
17
           x++;
18
       }
19
20
       return 0;
21
22 }
23
```

```
Compile Result

3
*
* *
* * *
[Process completed - press Enter]
```

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Compile Result 4 * * * * * * * * * [Process completed - press Enter]

5. Given an integer N. Print the following pattern.

Sample Input	Sample Output	
3	.*	

4		
40	***	

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Code for the above question:

```
Coding C
                                                   RUN
                                                          MENU
  Auto saved at 23:22:25
2#include <stdio.h>
₃int main()
4 {
    int row, c, n;
5
    scanf(\"%d\", &n);
6
    row = 1;
8
       while(row <= n)
9
       {
10
          c = 1;
11
          while(c <= n-row)</pre>
12
13
                          ");
             printf("
14
             C++;
15
         }
16
17
         c = 1;
18
         while(c \leq 2*row - 1)
19
         {
20
             printf("");
21
             C++;
22
         }
23
24
       printf("\m");
25
       row++;
26
27
    }
28
29
    return 0;
30
31 }
```

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```
Compile Result

3

* * * * *

* * * * *

[Process completed - press Enter]
```

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