

C assignments – Day 20 (20-Sept-2022)

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All the questions are typed in comments of the code.

Que.1

```
/* Print the pattern..
if the input is 5
1
12
123
1234
12345
*/

#include <stdio.h>
void main()
{
    int i, j, n;
    printf("Enter the number of lines you want to print\n");
    scanf("%d", &n);
    for (i = 1; i <= n; i++)
    {
        printf("\n");
        for (j = 1; j <= i; j++)
        {
            printf("%d", j);
        }
    }
}
```

Que2.

```
/* Print the pattern..
if the input is 5
1
**
123
****
12345
*****
```

```

*/

#include <stdio.h>
void main()
{
    int i, j, n;
    printf("Enter the number of lines you want to print\n");
    scanf("%d", &n);
    for (i = 1; i <= n; i++)
    {
        printf("\n");
        if (i % 2 == 1)
        {
            for (j = 1; j <= i; j++)
            {
                printf("%d ", j);
            }
        }
        else
        {
            for (j = 1; j <= i; j++)
            {
                printf("* ");
            }
        }
    }
}

```

Que3.

```

/* Print the pattern..
1
23
456
78910
*/

#include <stdio.h>
void main()
{
    int i, j, n, k = 1;
    printf("Enter the number of lines you wanna print\n");

```

```

scanf("%d", &n);
for (i = 1; i <= n; i++)
{
    printf("\n");

    for (j = 1; j <= i; j++)
    {
        printf("%d ", k);
        k++;
    }
}
}

```

Que4.

```

/* Print the pattern..
1
1 *
1 * 3
1 * 3 *
*/

#include <stdio.h>
void main()
{
    int i, j, n, k ;
    printf("Enter the number of lines you wanna print\n");
    scanf("%d", &n);
    for (i = 1; i <= n; i++)
    {
        printf("\n");

        for (j=1; j <= i; j++)
        {
            if (j % 2 == 1)
            {
                printf("%d ", j);
            }
            else{
                printf("* ");
            }
        }
    }
}

```

```
}  
}
```

Que5.

```
/*  
If the input is 6  
Output patern:  
1*****1  
12*****21  
123*****321  
1234*****4321  
12345**54321  
123456654321  
*/  
  
#include <stdio.h>  
void main()  
{  
    int i, j, n, k;  
    printf("Enter the number of lines you want to print\n");  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
    {  
        printf("\n");  
        for (j = 1; j <= i; j++)  
        {  
            printf("%d ", j);  
        }  
  
        for (k = 1; k <= 2 * (n - i); k++)  
        {  
            printf("* ");  
        }  
  
        for (int x = i; x >= 1; x--)  
        {  
            printf("%d ", x);  
        }  
    }  
}
```

