Assignment Answer Of Day 1st lecture Of DSA

Program-1:

```c
/*Aurthor--Yashodip Beldar
  Date--23/7/2022
  Purpose--To print pattern assignment in odd order.
*/
#include <stdio.h>
void main()
{
    int n;
    printf("Enter \n");
    scanf("%d", &n);
    for (int i = 1; i <= n; i++)
    {
        if (i % 2 != 0)
        {
            for (int k = 1; k <= i; k++)
            {
                printf("*");
            }
            printf("\n");
        }
    }
}
```

Output:

Enter

7

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

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Program-2:

```c
/*Aurthor--Yashodip Beldar
  Date--23/7/2022
  Purpose--To print assignment 123.
*/
#include <stdio.h>
void main()
{
    int n;
    printf("Enter number of lines\n");
    scanf("%d", &n);
    for (int i = 1; i <= n; i++)
    {

        for (int k = 1; k <= i; k++)
        {
            printf("%d", k);
        }
        printf("\n");
    }
}
```

Output:

Enter number of lines 5

1

12

123

1234

12345

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Program-3:

```c
/*
    Aurthor--Yashodip Beldar
    Date--23/7/2022
    Purpose--Printing pattern hallow square.
*/
#include <stdio.h>
void main()
{
    int i, k, n;
    printf("Enter side ");
    scanf("%d",&n);
    for (i = 1; i <= n; i++)
    {
        for (k = 1; k <= n; k++)
        {
            if (i == 1 || i == n || k == 1 || k == n)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
}
```

Output:

Enter side 5

```
*****

*   *

*   *

*   *

*****
```