## **Data Structures and Algorithms Essential Program**

## DAY-2 | ASSIGNMENT

```
1.)Write a program to print the following pattern
2*2
3*3*3
4*4*4*4
Sol.)
#include<stdio.h>
void main(){
int i,j;
for(i=1;i<=4;i++){}
       for(j=1;j<=i;j++){}
               if(j < i){
                       printf("%d*",i);
                }
                else{
                       printf("%d",i);
                }
      printf("\n");
   }
2.) Write a program to print the following pattern
1
01
101
0101
10101
Sol.)
#include<stdio.h>
void main(){
       int i,j;
       for(i=1;i<=5;i++){
               for(j=1;j<=i;j++){
                       if(j\%2==0\&\&i\%2==0){
                               printf("1");
                       else if(i%2!=0&&j%2!=0){
                  printf("1");
                       }
                       else if(i\%2==0\&\&j\%2!=0){
                               printf("0");
```