**DAY-2 ASSSIGNMENT**

UTKARSH PATHAK

[Utkarshpathak2504@gmail.com](mailto:Utkarshpathak2504@gmail.com)

9928999749

Write a program to print the following pattern

1

2\*2

3\*3\*3

4\*4\*4\*4

**#include <iostream>**

**using namespace std;**

**int main() {**

**int i,j;**

**for(i=0;i<=4;i++){**

**for(j=1;j<2\*i;j++){**

**if(j%2==0)**

**cout<<"\*";**

**else**

**cout<<i;**

**}**

**cout<<endl;**

**}**

**}**

**Write a program to print the following pattern**

**1**

**01**

**101**

**0101**

**10101**

**#include <stdio.h>**

**int main()**

**{**

**int i,j,n,p,q;**

**for(i=1;i<=5;i++)**

**{**

**if(i%2==0)**

**{ p=1;q=0;}**

**else**

**{ p=0;q=1;}**

**for(j=1;j<=i;j++)**

**if(j%2==0)**

**printf("%d",p);**

**else**

**printf("%d",q);**

**printf("\n");**

**}**

**}**

**Question 3**

**Write the similarity and difference between an array name and a pointer variable.**

An array is a collection of elements of similar data type whereas

the pointer is a variable that stores the address of another variable.

An array size decides the number of variables it can store whereas

a pointer variable can store the address of only one variable in it