1. Write a program to print the following pattern

1

2\*2

3\*3\*3

4\*4\*4\*4

1. #include<stdio.h>

int 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

1. #include <stdio.h>

void 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");

}

}

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

1. Array in C is used to store elements of the same types whereas Pointers are address variables which stores the address of a variable. sizeof() operator prints the size of array in case of array and in case of pointer, it prints the size of int