INTRODUCTION TO PROGRAMING USING

ASSIGNMENT – II

QUESTION - I

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MODULES

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C PROGRAM TO GENERATE TRIANGLE PATTERN

Code Overview

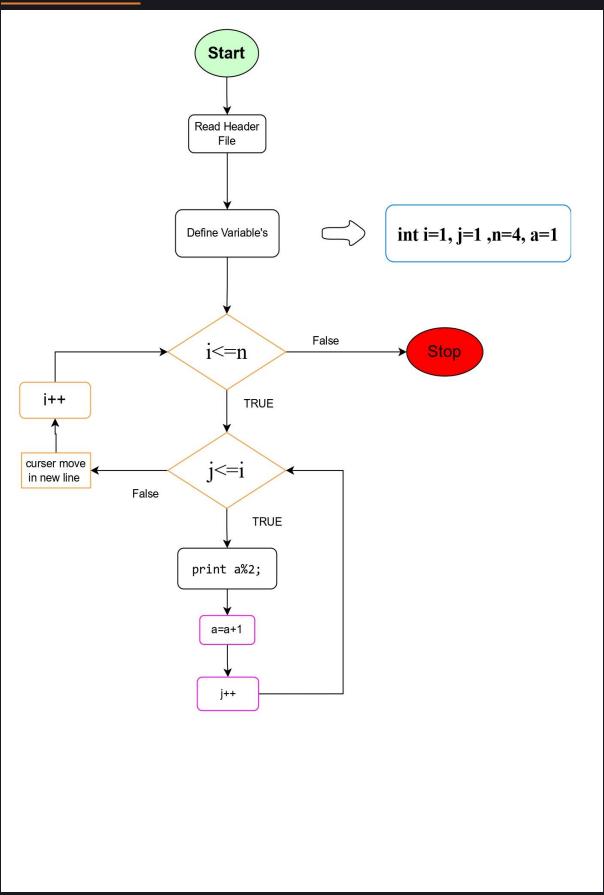
This C program is a simple example that prints a pattern of a triangular shape. It uses nested loops to achieve this pattern.

Code

```
#include<stdio.h>
int main()
{
    int i, j, n=4, a;
    a = 1;
    for(i=1;i<=n;i++)</pre>
    {
         for(j=1;j<=i;j++)
         {
             printf("%d", a%2);
             a++;
         }
         printf("\n");
    }
    return 0;
}
```

OUTPUT

Flowchart



C PROGRAM TO GENERATE

A PYRAMID PATTERN

Code Overview

This C program generates a pyramid pattern using star (*). It consists of two parts: the first part prints an increasing number of star in each row, and the second part prints a decreasing number of star in each row.

CODE

```
#include <stdio.h>
int main()
{
    int n, i, j;
    n = 5;
    for (i = 1; i <= n; i++)
    {
        for (j = 1; j \le i; j++)
            printf("*");
        printf("\n");
    for (i = n - 1; i >= 1; i--)
    {
        for (j = 1; j <= i; j++)
            printf("*");
        printf("\n");
    }
    return 0;
}
```

Output

```
*

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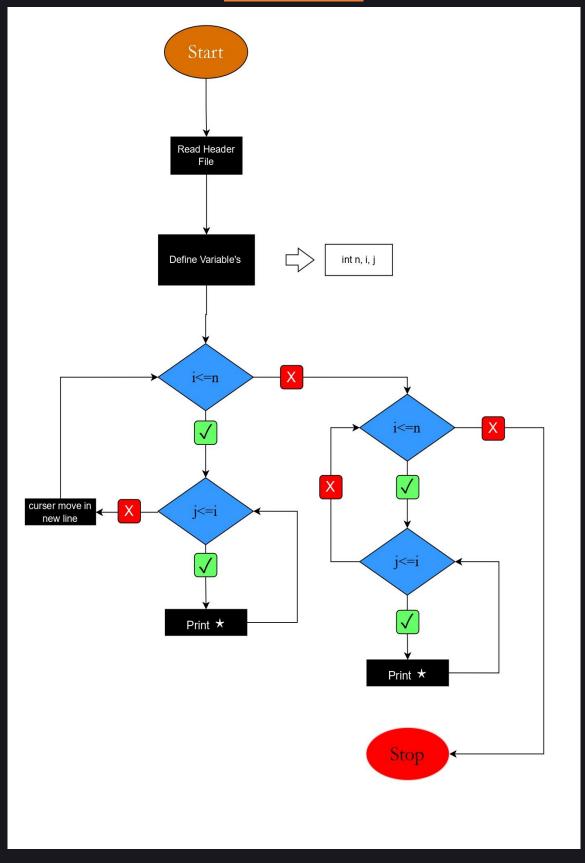
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**

**
```

<u>Flowchart</u>



GENERATING CHARACTER PATTERN

Code Overview

This C program generates a character pattern (ASCII) and incrementing in each row. It prints a triangular pattern of characters.

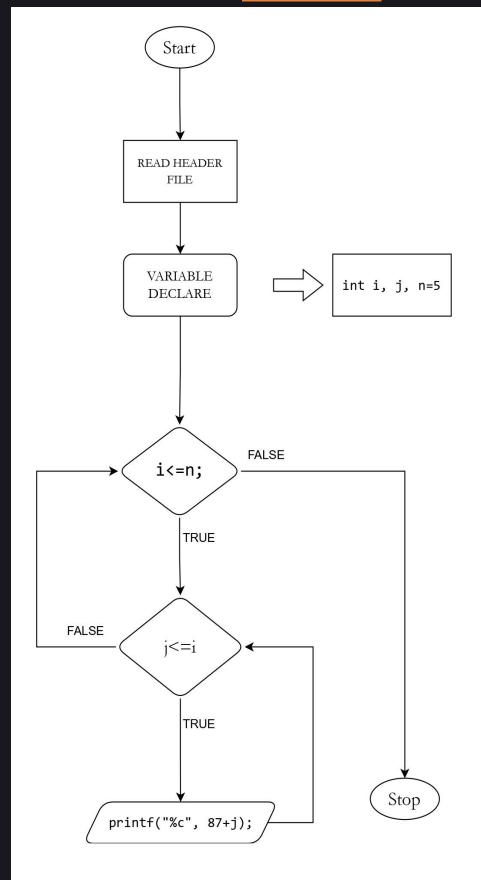
CODE

```
#include<stdio.h>
int main()
{
    int i, j, n=5;
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=i;j++)
        {
             printf("%c", 87+j);
        printf("\n");
    }
    return 0;
}
```

OUTPUT

```
X
XY
XYZ
XYZ[
XYZ[\
```

Flowchart





Thankyou