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/\* Lab 3 Question 6 \*/

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/\* This Program employs a nested function \*/

/\* in order to print a triangle pattern \*/

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#include<stdio.h>

int main()

{

//Declaration

int base, row, col;

//Data/Input

printf("Enter the base size of triangle for pattern : ");

scanf("%d", &base);

//Processing/Calculation

for (row = 1; row <= base; row++)//For loop statement conducts a loop function for the rows based on the base number.

{

for (col = 1; col <= (row); col++)//Nested for loop statement conducts a loop function for the column as long as it is less than row number..

printf("%d", col);

printf("\n");

}

return 0;

}

//Output

//

//Test Run 1

//

//Enter the base size of triangle for pattern : 5

//1

//12

//123

//1234

//12345

//

//Test Run 2

//

//Enter the base size of triangle for pattern : 10

//1

//12

//123

//1234

//12345

//123456

//1234567

//12345678

//123456789

//12345678910

//

//Test Run 3

//

//Enter the base size of triangle for pattern : 7

//1

//12

//123

//1234

//12345

//123456

//1234567