

Instructions for Project 5

Write an assembly code for each of the following. One point for each. Only one program for all.

Initial part of code given below:

```
program stars;

#include ("stdlib.hhf");

var
    numOfStars:      int8;

begin stars;
    stdout.put("Enter a positive integer (5 to 10): ");
    stdin.getu8();
    MOV (AL, numOfStars);
```

Do not forget to print your
info, type comments....

No	Shape	Code (C and Assemble)
A	<pre> *</pre>	<pre> for (i = 0; i <= number; i++) { for (j = 0; j <= i; j++) System.out.print ("* "); System.out.println(); } // Shape A stdout.put("A", nl); for (MOV(0, AL); AL <= numOfStars; INC(AL)) do for (MOV(0, BL); BL < AL; INC(BL)) do stdout.put("* "); endfor; stdout.newln(); endfor;</pre>
B	<pre> *</pre>	<pre> for (i = number; i >= 0; i--) { for (j = 0; j <= i; j++) System.out.print ("* "); System.out.println(); }</pre>
C	<pre> *</pre>	<pre> for (i = 0; i <= number; i++) { for (j = 0; j <= i; j++) System.out.print (" "); for (j = 0; j <= number - i; j++) System.out.print ("* "); System.out.println(); }</pre>

D	<pre> * ** *** **** ***** ***** ***** </pre>	<pre> for (i = 0; i <= number; i++) { for (j = 0; j <= number - i; j++) System.out.print (" "); for (j = 0; j <= i; j++) System.out.print ("* "); System.out.println(); } // Shape C stdout.put("C", nl); for (MOV(0, AL); AL <= numOfStars; INC(AL)) do MOV (numOfStars, CL); SUB (AL, CL); for (MOV(0, BL); BL < CL; INC(BL)) do stdout.put(" "); endfor; for (MOV(0, BL); BL < AL; INC(BL)) do stdout.put("* "); endfor; stdout.newln(); endfor; </pre> <p>It should be "D"</p>
E	<pre> * * * * * * </pre>	<pre> for (i = 0; i <= number; i++) { for (j = 0; j <= number - i; j++) System.out.print (" "); System.out.print ("*"); System.out.println(); } </pre>
F	<pre> * * * * * * * </pre>	<pre> for (i = 0; i <= number; i++) { for (j = 0; j <= i; j++) System.out.print (" "); System.out.print ("*"); System.out.println(); } </pre>
G	<pre> * * * * * * * * * * * * </pre>	No Assembly or C code provided.