console.log("===================================================");

console.log(" Tugas Diamond");

console.log(" Nama : Androw Ragilson");

console.log(" NIM : 20190801354");

console.log("===================================================");

var input = require("readline-sync");

var x = ""

var n = parseInt(input.question(' Masukan Nilai : '));

console.log("===================================================");

var a = '';

for(var a=n; a>0; a--){

for(var i=1; i<=a; i++){

x += " ";

}

for(var a1=n; a1>a; a1--){

x += "\*"+" ";

}

console.log(x);

x= "";

}

var x = '';

for(var i=n; i>=1; i--){

for(var k=n; k>i; k--){

x += " ";

}

for(var j=i; j>=1; j--){

x += "\*"+" ";

}

console.log(x);

x = "";

}

console.log("===================================================");

**HASIL**

PS E:\ESA UNGGUL SEMESTER 1\MK MATEMATIKA\BELAJAR> node 20190801354\_Diamond.js

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Tugas Diamond

Nama : Androw Ragilson

NIM : 20190801354

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Masukan Nilai : 6

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PS E:\ESA UNGGUL SEMESTER 1\MK MATEMATIKA\BELAJAR>

**PEMBUKTIAN**

KODE BINTANG MERUNCING KE ATAS

|  |  |  |
| --- | --- | --- |
| INPUT | PROSES | OUTPUT |
| **6** | A > 0 (TRUE) A – 1  I < A (TRUE) print “spasi” sampai **False**  A1 > A ((TRUE), A = 1, 2>1) print “\*” | **\*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*” | **\* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*” | **\* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 5>1)) output “\*”  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*” | **\* \* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 6>1)) output “\*”  A1 > A ((TRUE, A = , 5>1)) output “\*”  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = ,3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*” | **\* \* \* \* \*** |

KODE BINTANG MERUNCING KE BAWAH

|  |  |  |
| --- | --- | --- |
| INPUT | PROSES | OUTPUT |
| **6** | A > 0 (TRUE) A – 1  A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 6>1)) output “\*”  A1 > A ((TRUE, A = ,5>1)) output “\*”  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*”  A1 > A ((TRUE, A = , 1>1)) output “\*” | **\* \* \* \* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = ,5 >1)) output “\*”  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*”  A1 > A ((TRUE, A = , 1>1)) output “\*” | **\* \* \* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 4>1)) output “\*”  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*”  A1 > A ((TRUE, A = , 1>1)) output “\*” | **\* \* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 3>1)) output “\*”  A1 > A ((TRUE, A = , 2>1)) output “\*”  A1 > A ((TRUE, A = , 1>1)) output “\*” | **\* \* \*** |
|  | A > 0 (TRUE) A – 1  A1 > A ((TRUE, A = , 2>1)) output “\*”  A1 > A ((TRUE, A = , 1>1)) output “\*” | **\* \*** |
|  | A > 0 (TRUE) A – 1  I < A (TRUE) print “spasi” sampai **False**  A1 > A ((TRUE), A = 1, 1>1) print “\*” | **\*** |