

```

console.log("SELAMAT DATANG");
console.log("Nama    : Anrian Sihotang")
console.log("NiM     : 20190801359")
var key = require("readline-sync");
var X = parseInt(key.question("Masukkan nilai x : "));
var Y = parseInt(key.question("Masukkan nilai y : "));
var pola1 = "";
var pola2 = "";
var pola3 = "";
var pola4 = "";
var Diamond = "";

//Pola 1
console.log("=====")
console.log("Model 1 :")
for(var A = 1; A < X; A++){
    for(var L =1; L < Y; L++){
        if(A + L >= X){
            pola1 = pola1.concat("*");
        }else{
            pola1 = pola1.concat(" ")
        }
    }
    pola1 = pola1.concat("\n")
} console.log(pola1)

//pola2
console.log("=====")
console.log("Model 2 :")
for(var A = 1; A < X; A++){
    for(var L = 1; L < Y; L++){
        if(A <= L){
            pola2 = pola2.concat("*")
        }else{
            pola2 = pola2.concat(" ")
        }
    }
    pola2 = pola2.concat("\n")
}
console.log(pola2)

//pola3
console.log("=====")
console.log("Model 3 :")
for(var A= 1; A< X; A++){
    for(var L =1 ; L < Y; L++){
        if(A >= L){
            pola3 = pola3.concat("*")

```

```

    }
}
pola3 = pola3.concat("\n")
} console.log(pola3)

//Pola 4
console.log("=====")
console.log("Model 4 :")
for(var A = 1; A < X; A++){
    for(var L =1; L< Y; L++){
        if(L >= A){
            pola4= pola4.concat("*")
        }
    }
    pola4 = pola4.concat("\n")
} console.log(pola4)
//Pola Diamonds
console.log("=====")
console.log("Diamond :")
for(var A = 1; A < X; A++){
    for(var L = 1; L < Y; L++){
        if(A <= X / 2 && L >= (X / 2) -(A - 1) && L <= (X/2) + (A-1)){
            Diamond = Diamond.concat("*");
        }else if(A >= X / 2 && L > ((X / 2) - A) * (-
1) && L < (X - ((X / 2) - A) *(-1))){
            Diamond = Diamond.concat("*");
        }else{
            Diamond = Diamond.concat(" ")
        }
    }
    Diamond = Diamond.concat("\n")
} console.log(Diamond)
console.log("=====")
console.log("TERIMA KASIH")

```

Trace

- MODEL 1

INPUT	1	OUTPUT
10	2	*
	3	**
	4	***
	5	****
	6	*****
	7	*****
	8	*****
	9	*****
	10	*****

- MODEL 2

INPUT	1	OUTPUT
10	2	*****
	3	*****
	4	*****
	5	*****
	6	*****
	7	****
	8	***
	9	**
	10	*

- MODEL 3

INPUT	1	OUTPUT
10	2	*
	3	**
	4	***
	5	****
	6	*****
	7	*****
	8	*****
	9	*****
	10	*****

- MODEL 4

INPUT	1	OUTPUT
10	2	*****
	3	*****
	4	*****
	5	*****
	6	*****
	7	****
	8	***
	9	**
	10	*

- DIAMOND

INPUT	1	OUTPUT
10	2	*
	3	***
	4	*****
	5	*****
	6	*****
	7	*****
	8	*****
	9	***
	10	*