

No 1

Deret_ANGKA_KELIPATAN_5

Deklarasi (kamus)

Start, End : Interger

Deskripsisi

STORE start WITH 50

STORE end WITH 100

FOR i FROM start TO LESS THAN EQUAL end INCREMENT BY 5

IF data LESS THAN EQUAL 60

 DISPLAY i CONCAT WITH "KURANG"

ELSE IF data LESS THAN EQUAL 70

 DISPLAY i CONCAT WITH "CUKUP"

ELSE IF data LESS THAN EQUAL 80

 DISPLAY i CONCAT WITH "BAIK"

ELSE

 DISPLAY i CONCAT "LUAR BIASA"

Kodingan

```
const start = 50;
```

```
const end = 100;
```

```
for (let i = start; i <= end; i += 5) {  
  if (i <= 60) {  
    console.log(i + " KURANG");  
  } else if (i <= 70) {  
    console.log(i + " CUKUP");  
  } else if (i <= 80) {  
    console.log(i + " BAIK");  
  } else {  
    console.log(i + " LUAR BIASA");  
  }  
}
```

No 2

Deret_Fibonacci

Deklarasi (kamus)

Num1, Num2, n : Interger

NextTerm : Array

Deskripsisi

STORE start WITH 50

STORE end WITH 100

SET NextTerm ARRAY

FOR i FROM 3 TO LESS THAN EQUAL n INCREMENT BY 1

 SET hasil WITH Num1 PLUS Num 2

 SET NextTerm PUSH hasil

 SET Num1 WITH Num2

 SET Num2 WITH hasil

DISPLAY NexTerm

Kodingan

```
let num1 = 0, num2 = 1,
```

```
let nextTerm = []
```

```
const n = 20;
```

```
for (let i = 3; i <= n; i++) {
```

```
    let hasil = num1 + num2;
```

```
    nextTerm.push(hasil)
```

```
    num1 = num2;
```

```
    num2 = hasil;
```

```
}
```

```
console.log(nextTerm)
```

No 3

Piramida

Deklarasi (kamus)

x : Integer

s : String

Deskripsisi

STORE S WITH ANY STRING

STORE X WITH 3

FOR I FROM 0 TO LESS THAN x INCREMENT BY 1

FOR j FROM 0 TO j LESS THAN EQUAL i INCREMENT BY 1

INCREMENT s WITH x

INCREMENT s WITH "\n"

DISPLAY s

Kodingan

```
let s = ""
```

```
let x = 3
```

```
for ( let i = 0; i < x ; i++) {
```

```
    for( let j = 0 ; j <= i ; j++){
```

```
        s += "*";
```

```
    }
```

```
    s += "\n";
```

```
}
```

```
console.log(s)
```

No 4

Empat_Angka

Deklarasi (kamus)

```
satuan, belasan, puluhan : Array
x : Integer
s : String
```

Deskripsisi

Function terbilang(x)

```
    STORE satuan : ARRAY ['', 'satu', 'dua', 'tiga', 'empat',
'lima', 'enam', 'tujuh', 'delapan', 'sembilan'] OF STRING
```

```
    STORE belasan : ARRAY ['sepuluh', 'sebelas', 'dua belas',
'tiga belas', 'empat belas', 'lima belas', 'enam belas',
'tujuh belas', 'delapan belas', 'sembilan belas'] OF STRING
```

```
    STORE puluhan : ARRAY ['', 'sepuluh', 'dua puluh', 'tiga
puluh', 'empat puluh', 'lima puluh', 'enam puluh', 'tujuh
puluh', 'delapan puluh', 'sembilan puluh'] OF STRING
```

```
    IF x LESS THAN 10
```

```
        RETURN satuan[x]
```

```
    ELSE IF x LESS THAN 20
```

```
        RETURN belasan[x-10]
```

```
    ELSE IF x LESS THAN 100
```

```
        RETURN puluhan[Math.floor(x DIVIDE 10)] CONCAT WITH " "
CONCAT WITH satuan[ x MODULUS 10]
```

```
    ELSE IF x LESS THAN 1000
```

```
        RETURN satuan[Math.floor(x DIVIDE 100)] CONCAT WITH "
ratus " CONCAT WITH terbilang(x MODULUS 100)
```

```
    ELSE IF x LESS THAN 1000000
```

```
    RETURN terbilang(Math.floor(x DIVIDE 1000)) CONCAT WITH "
ribu " CONCAT WITH terbilang(x MODULUS 1000)
```

```
ELSE
```

```
    RETURN "Program Hanya bisa hingga jutaan"
```

Koding

```
function terbilang(x){
    let satuan = ['', 'satu', 'dua', 'tiga', 'empat', 'lima',
'enam', 'tujuh', 'delapan', 'sembilan'];
    let belasan = ['sepuluh', 'sebelas', 'dua belas', 'tiga
belas', 'empat belas', 'lima belas', 'enam belas', 'tujuh
belas', 'delapan belas', 'sembilan belas'];
    let puluhan = ['', 'sepuluh', 'dua puluh', 'tiga puluh',
'empat puluh', 'lima puluh', 'enam puluh', 'tujuh puluh',
'delapan puluh', 'sembilan puluh'];
    console.log(x)

    if(x < 10){
        return satuan[x]
    } else if( x < 20){
        return belasan[x-10]
    } else if(x < 100){
        return puluhan[Math.floor(x/10)] + " " + satuan[ x %
10]
    } else if(x < 1000){
        return satuan[Math.floor(x /100)] + " ratus " +
terbilang(x % 100)
    } else if( x < 1000000 ){
        return terbilang(Math.floor(x / 1000)) + " ribu " +
terbilang(x % 1000)
    } else {
        return "Program Hanya bisa hingga jutaan"
    }
}

let x = 2234;
console.log(terbilang(x))
```