|  | JAVASCRIPT | PYTHON | RUBY | KOTLIN | FLUTTER |
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| **Variabel** | var name;  let age=22;  const number=3.14; | name=”Jason”  age=23  a=4  b=8  c=a+b  print(‘Jumlah a+b: ’+c) #12  x,y,z=(2,3,4) #Multiple |  |  |  |
| **Data Types** | //Primitipe  //String, Number, Boolean, null, undefined, Symbol  const name="Jhone"; const age=34;  const hasKid=true; const car=null;  //Reference Data Types  //array, Object literal  let hobbies=['Coding','Movies','Fitness'];  let address={  city:"Jakarta",  country:"Indonesia"  }  console.log(hobbies[2]);// 'Fitness'  console.log(address.city);// Jakarta |  |  |  |  |
| **output** | console.log(name);  document.writeln(age);  document.write(age);  alert(number);  console.table({a:2,b:5}); | print()  print(str(12)) #string  print(int(12)) #integer |  |  |  |
| **input** | let a = prompt("masukkan val :");  console.log(a); | input()  int a=input(“A :”) |  |  |  |
| **Array** | let Koleksi=['Bumi',2,null,undefined,3.14];  console.log(Koleksi[1]);//2  let number=[1,2,3,4,5,6,7,8];  alert(number[3]);//4  array method:   1. shift(); //remove first item   let numb=[1,2,3,4,5];  numb.shift();  console.log(numb); //[ 2, 3, 4, 5 ]   1. pop(); //remove last item   let numb=[1,2,3,4,5];  numb.pop();  console.log(numb); //[ 1, 2, 3, 4 ]   1. push("Newitem"); //add new to array   let numb=[1,2];  numb.push("A");  console.log(numb); //[ 1, 2, 'A' ]   1. unshift(‘NewItem’); //addnew at [0]   let numb=[1,2];  numb.unshift("A");  console.log(numb); //[ 'A', 1, 2 ]   1. Array[2]=’NewItem’; //change item in array   var arr1 = ["A", "B", 1, 2, 3];  arr1[1]="NewItem";  console.log(arr1);//[ 'A', 'NewItem', 1, 2, 3 ]   1. delete number[0]; //delete item [0]   var arr1 = [1, 2, 3];  delete arr1[1];  console.log(arr1);//[ 1, , 3 ]   1. lenght(); //lenght array   let numb=[1,2,3,5,6,8];  console.log(numb.length); //6   1. concat(array2); join array   var number=[1,2,3];  var abjad=['A','B','C'];  let newarr=number.concat(abjad);  console.log(newarr);//[1,2,3,'A','B','C'];  var arr1 = ["A", "B"];  var arr2 = [1, 2, 3];  var arr3 = ["X", "Z"];  var abj = arr1.concat(arr2, arr3);  console.log(abj);//[ 'A', 'B', 1, 2, 3, 'X', 'Z' ]  var arr1 = ["A", "B"];  var newA = arr1.concat([1, 2, 3]);  console.log(newA); //["A", "B", 1, 2, 3];   1. Slice(); //create new array from slice   var Abj = [1, 2, 3, 4,5];  var newAbj = Abj.slice(1, 3);  console.log(newAbj); //[ 2, 3 ]   1. reverse(); //reverse an array   var arr1 = [1, 2, 3];  arr1.reverse();  console.log(arr1);//[ 3, 2, 1 ] |  |  |  |  |
| **Object** | var person = {  firstName:"John",  lastName:"Doe",  age:20,  nationality:"Indonesia",  alamat:{  kota:"Padang",  post:2333  }  }  console.log(person.age);//20  console.log(person.alamat.kota);  console.log(person.alamat.post); |  |  |  |  |
| **List** | PYTHON |  |  |  |  |
| **Tupple** | PYTHON |  |  |  |  |
| **Dictionary** | PYTHON |  |  |  |  |
| **If** | const age=23;  if(age<=12 || age>=65){  console.log("Not allow");  } else if(age>=13 || age<=65){  console.log("allowed");//allowed  }  let val=5  if(val=5){  console.log("val = : ", val)  } |  |  |  |  |
| **While** | let x = 0;  while(x<6){  console.log("number now is : ",x);  x+=1;  } |  |  |  |  |
| **Switch** | let day="monday";  switch (day){  case "sunday":  console.log("day is sunday");  break;  case "monday":  console.log("day is monday");  // day is monday  break;  default:  console.log("day is ....");  break;  } |  |  |  |  |
| **Function** | function jumlah(a,b){  return a+b;  }  let a = jumlah(2,7);  console.log(a); //9  //using Math Function  let val ;  val = Math.PI;//3.141592653589793  val = Math.max(100,11,322,4,5,545);//545  val = Math.min(100,11,322,4,5,545);//4  val = Math.round(2.5);//3  val = Math.pow(3,2); //9 (pangkat)  val = Math.abs(-5); //5  val = Math.random(); //random  val = Math.floor(2.8); //2  val = Math.ceil(2.4); //3 |  |  |  |  |
| **Loop** | let car = ['BWM','Inova','Avanza','Honda'];  for(i=0;i<car.length;car++){  console.log(car);  }  //another loop  let angka=[1,2,3,4,,5,6,7,8,9];  for(i=0;i<angka.length;i++){  if(i%2==0){  console.log(i,":genap");  } else{  console.log(i,": Ganjil")  }  } |  |  |  |  |
| **DOM** |  |  |  |  |  |
| **OOP** | 1. polimer 2. inherite |  |  |  |  |
| **API** | 1. Postman 2. post 3. patch 4. get 5. delete |  |  |  |  |

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|  | CodeIgniter | Laravel | Djanggo | Rails |
| Model | class ModelBaru extends CI\_Model(){  //todo model;  } | composer require install –prefer-dist laravel/laravel newProject |  |  |
| View |  |  |  |  |
| Controller | class controllerBaru extends CI\_Controller(){  //todo Controller;  } |  |  |  |
| Route |  |  |  |  |

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|  | Node JS | Express JS | React JS | Vue JS | React Native |
| Model | class ModelBaru extends CI\_Model(){  //todo model;  } | composer require install –prefer-dist laravel/laravel newProject |  |  |  |
| View |  |  |  |  |  |
| Controller | class controllerBaru extends CI\_Controller(){  //todo Controller;  } |  |  |  |  |
| Route |  |  |  |  |  |

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|  | Python | Anaconda | Numpy | Vue | Angular |
| Model | class ModelBaru extends CI\_Model(){  //todo model;  } | composer require install –prefer-dist laravel/laravel newProject |  |  |  |
| View |  |  |  |  |  |
| Controller | class controllerBaru extends CI\_Controller(){  //todo Controller;  } |  |  |  |  |
| Route |  |  |  |  |  |

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|  | Basic MYSQLi |
|  | $conn = mysqli\_connect(“localhost”,”root”,”pass”,”db\_name”);  $sql = ("select \* from tabel");  $result = mysqli\_query($conn, $sql);  $data=mysqli\_fetcth\_array();  $data=mysqli\_fetcth\_object();  mysqli\_nums\_rows();  mysqli\_afffected\_rows();  //CRUD  create table ;  create table tutorials\_tbl(  tutorial\_id INT NOT NULL AUTO\_INCREMENT,  tutorial\_title VARCHAR(100) NOT NULL,  tutorial\_author VARCHAR(40) NOT NULL,  submission\_date DATE,  PRIMARY KEY ( tutorial\_id )  );  insert into tabel(a,b) values(‘a’,’b’);  select \* from table;  delete from table where ID=’AA’;  update data set nama=’NewName’ where ID=’12’;  //contoh  $sql = ("select \* from tb\_siswa where idorangtuas='2323'");  $result = mysqli\_query($conn, $sql);  $rows = mysqli\_num\_rows($result);  while ($data = mysqli\_fetch\_array($result)) {  echo $data[0];  echo $data[1];  }  while ($data = mysqli\_fetch\_object($result)) {  echo $data->Object1;  echo $data-> Object2;  } |

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|  | Basic PDO |
|  | $conn = mysqli\_connect(“localhost”,”root”,”pass”,”db\_name”); |

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|  | Basic JASON |
|  | $conn = mysqli\_connect(“localhost”,”root”,”pass”,”db\_name”); |

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|  | Basic MONGO DB |
|  | $conn = mysqli\_connect(“localhost”,”root”,”pass”,”db\_name”); |