

DART COMMANDS COMPLETE DOCUMENTATION

/*DATA TYPES

*int ,double

int age=10;

var age =10;

strings

String name="henry";

var name ="henry";

booleans

lists/arrays

maps

runes

Symbols

*/

/*STRING INTERPOLATION

* 2,"john",4.5 are all literals

var isCool=true;

String s1="single";

String s2="double";

String s3='It's easy';

String s4="Its's easy";

String s5=" vhxjdhgvjjjjj""jjjgxcvfxvv" "vvvvvvvvvvvvvv";//No need to add plus sign dart automatically understands

String name="ananya";

print("my name is \$name");

print("characters is" + name.length.toString());

alter

print("my name number of characters is \${name.length}");

Also for numbers:

var l=10;

var b=20;

print("sum of \$l and \$b is \${l+b}");

```
* */
```

```
/*
```

```
* CONSTANTS IN DART
```

```
* final name="peter";
```

```
* const PI =3.14;
```

```
Final variable can only be set once and it is initialized only when accessed
```

```
Const variable is implicitly final but it is compile time constant
```

```
*/
```

```
/*
```

```
* CONDITIONAL IF ELSE
```

```
* condition? exp1 :exp2
```

```
*
```

```
* exp1 ?? exp2
```

```
* if exp1 is not null then evaluate exp1 else evaluate exp2
```

```
*
```

```
* */
```

```
/*
```

```
LOOPS
```

```
for(var i=0;i<4;i++){
```

```
print("hello");
```

```
}
```

```
FOR -IN LOOP
```

```
list planetList ={"mercury"."venus","earth"};
```

```
for (String planet in planetList)
```

```
{
```

```
print(planet);
```

```
}
```

```
* */
```

```
OPTIONAL PARAMETERS:
```

```
void main() {
```

```
  Cities("usa");
```

```

}
void Cities(String name1,[String name2]){
    print("Name1 is $name1");
    print("Name2 is $name2");}

```

NAMED PARAMETER:

```

void main() {
    var result=volume(2,h:7,b:5);
    print(result);
}
int volume(int l,{int b,int h})
{
    return l*b*h;
}

```

EXCEPTIONAL HANDLING:

- //catch clause is used when the type of error is unknown

```

try{
    int result = 12~/0;
    print(result);
}catch(e){
    print("Cannot divide by zero");
}

```

- //if type of exception is known then use ON clause:

```

try{
    int result = 12~/0;
    print(result);
}on IntegerDivisionByZeroException{
    print("Cannot divide by zero");
}

```

- //to trace the stack before throwing exception

```

try{
    int result = 12~/0;
    print(result);
}catch(e,s){
    print("Cannot divide by zero");
}

```

```

    print("Stack trace \n $$");
}

}

```

CONSTRUCTOR:

The code in the constructor always executes before the class functions.

LAMBDA FUNCTION

```
void main() {
```

```

Function add= (int a,int b){
    var sum =a+b;
    print(sum);
};

```

```

var multiply = (int num){
    return num*4;
};
Addnumbers(2,5);
}
void Addnumbers(int a,int b)
{
    var sum =a+b;
    print(sum);
}

```

HIGHER ORDER FUNCTION

```
void main() {
```

```

Function add= (int a,int b){
    var sum =a+b;
    print(sum);
};

```

```

    somefun("hello",add);
}
void somefun(String message,Function myfunction)
{
    print(message);
    myfunction(2,4);
}

```

Function task()

```
{  
    Function mul = (int num) => num*4;  
    return mul;  
}
```

CLOSURE IS A FUNCTION WHICH CAN ACCESS TO THE PARENT SCOPE EVEN WHEN THE FUNCTION IS CLOSED.

TO MODIFY A VARIABLE IN A FUNCTION THAT IS DEFINED OUTSIDE THE FUNCTION

LIST

```
List<int> numberlist =List();  
numberlist.add(77);  
numberlist.remove(77);  
numberlist.removeAt(41,2);//number and index
```

SET

Unordered collection of list

HashSet is the implementation of ul,we can include only unique element

```
Set<String> countries =Set.from(["usa","india"])  
countries.remove("usa");  
countries.isEmpty;  
countries.length;  
countries.clear();
```

HASHMAP:

Key cannot be repeated but value can be repeated

```
void main() {  
    Map<String,int> code={  
        "usa" :1,  
        "India":12,  
        "pakistan":92;  
    };  
}
```

//first method for map

```
Map<String,String> fruits =Map();  
fruits["apple"]="red";  
fruits["banana"] ="yellow";
```

//other method for map

```
fruits.containsKey("apple");  
fruits.update("apple",(value)=>"green");  
fruits.remove("apple");  
fruits.isEmpty;  
fruits.length;
```

//different functions

```
fruits.clear();

print(fruits["apple"]);
for(var key in fruits.keys)
{
    print(key);
}
for(var value in fruits.values)
{
    print(value);
}

fruits.forEach((key,value)=> print("key: $key and value :$value"));
}
```