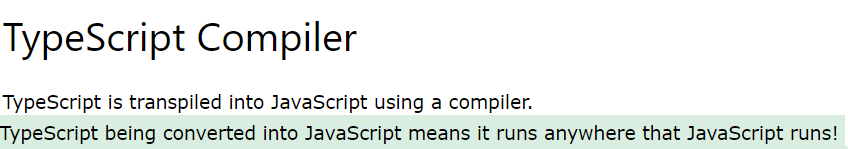
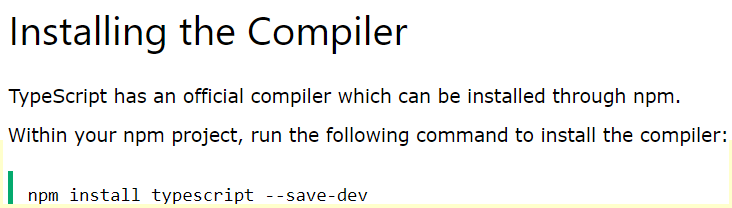
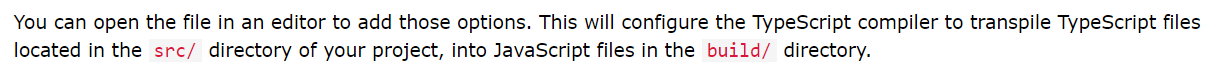


It was developed by Microsoft to overcome the shortcomings of Javascript







A white background with red text

Description automatically generated

A screenshot of a phone

Description automatically generated

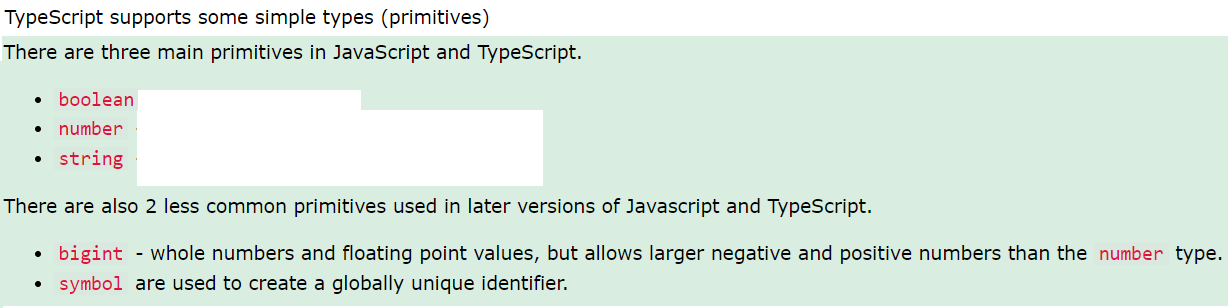
Print data to Console



To run the Code we use tsc script.ts

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Description automatically generated

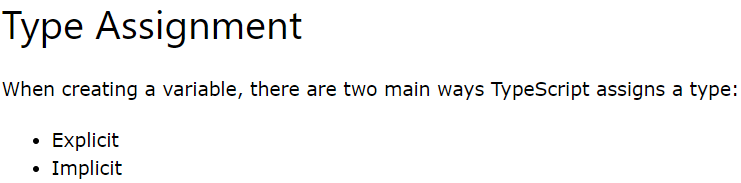


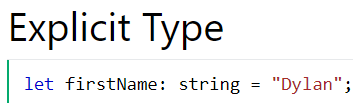
Examples-

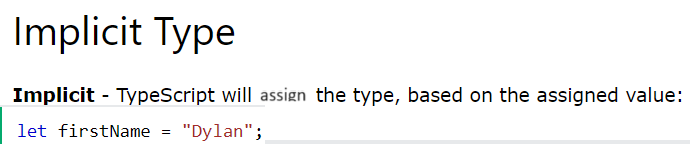
A screen shot of a computer

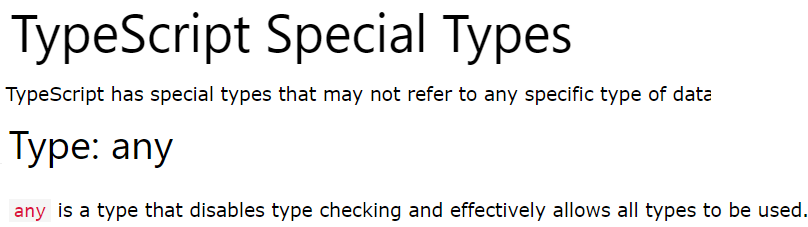
Description automatically generated

Constants are declared using “const”







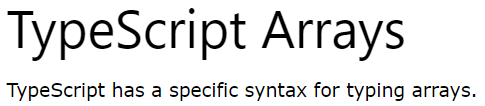




If Datatype is not specified for a variable it gets assigned to “any” type

A close up of words

Description automatically generated



Ex-



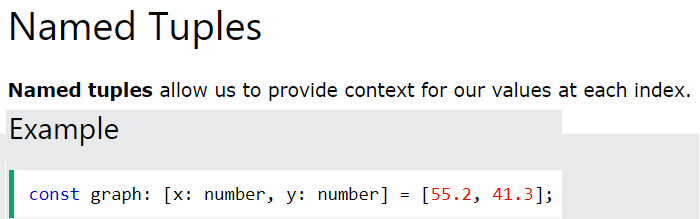
A black text on a white background

Description automatically generated

A close up of text

Description automatically generated







A computer screen shot of a string

Description automatically generated

A black text on a white background

Description automatically generated

A close up of words

Description automatically generated

A screenshot of a computer code

Description automatically generated



A screenshot of a computer

Description automatically generated



A black letter on a white background

Description automatically generated

A white background with black text

Description automatically generated

To pass null values to functions we use the below code

A computer screen with text

Description automatically generated







A computer code with black text

Description automatically generated

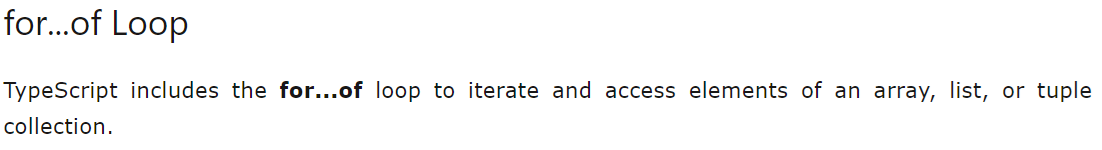
A white background with black text

Description automatically generated

For loop-

A close-up of a computer code

Description automatically generated

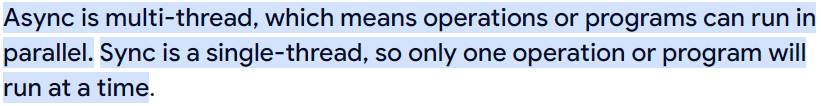


Ex-

A computer code with text

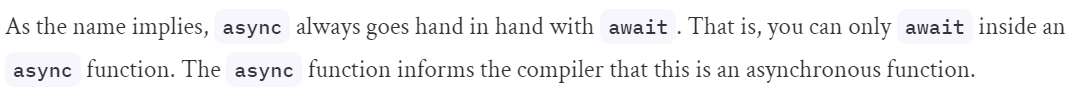
Description automatically generated with medium confidence

async vs sync-

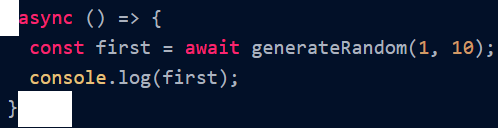


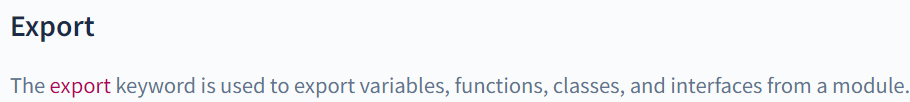


async/await-



Ex-





Syntax-

A blue screen with pink and white text

Description automatically generated

Ex-

A screen shot of a computer code

Description automatically generated

Consider pet.js

// 📂 Pet.js

export class VirtualPet {

constructor(name, species) {

this.name = name;

this.species = species;

this.energy = 100;

}

// Play with the pet

play() {

this.energy -= 10;

this.\_checkStats();

}

// Feed the pet

feed() {

this.energy += 20;

this.\_checkStats();

}

// Private method to check and limit the stats

\_checkStats() {

if (this.energy > 100) {

this.energy = 100;

}

if (this.energy < 0) {

this.energy = 0;

}

}

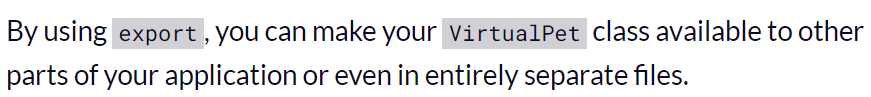
// Get the pet's status

getStatus() {

return `${this.name} the ${this.species} - Energy: ${this.energy}`;

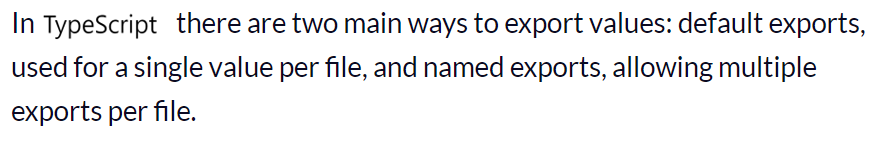
}

}



A screenshot of a computer program

Description automatically generated

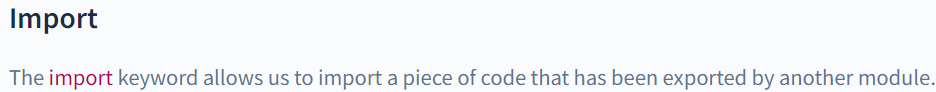


Default exports-A close up of a text

Description automatically generated

A computer screen shot of a computer code

Description automatically generated





Ex-

A computer code with white text

Description automatically generated with medium confidence

Namespace-



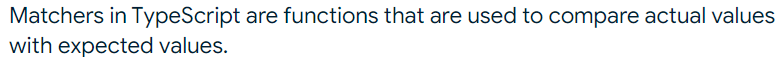
Interface-



A screen shot of a computer program

Description automatically generated

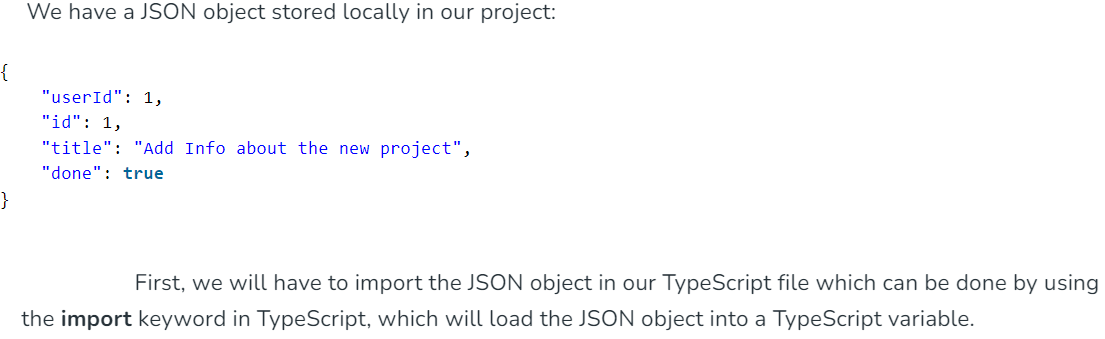
Matchers Interface-



A screen shot of a computer program

Description automatically generated

Handling JSON files-



Ex-



Sample script-

A screen shot of a computer program

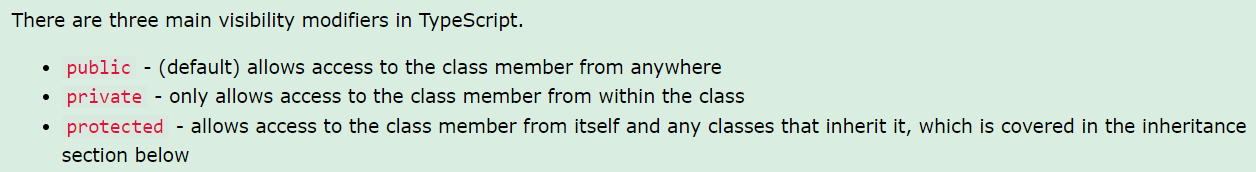
Description automatically generated

A black text on a white background

Description automatically generated

A computer code with black text

Description automatically generated



A computer screen shot of a computer code

Description automatically generated