Full Stack מסלול

קמפוס ת"א זום 2021

שם המרצה: דורון אזולאי



ברוכים הבאים!



Lesson Agenda

- Node npm
- TypeScript compiler
- Load Ts
- Operators %,/
- Simple Cast
- Exercise
- Q&A



Node: npm

https://nodejs.org/en/download/





TypeScript: compiler

open cmd/terminal and write npm i -g typescript

```
npm install -g typescript
changed 1 package, and audited 2 packages in 976ms
found 0 vulnerabilities
```

then write npm list -g

```
npm list -g
C:\Users\dufa1\AppData\Roaming\npm
`-- typescript@4.8.2
```

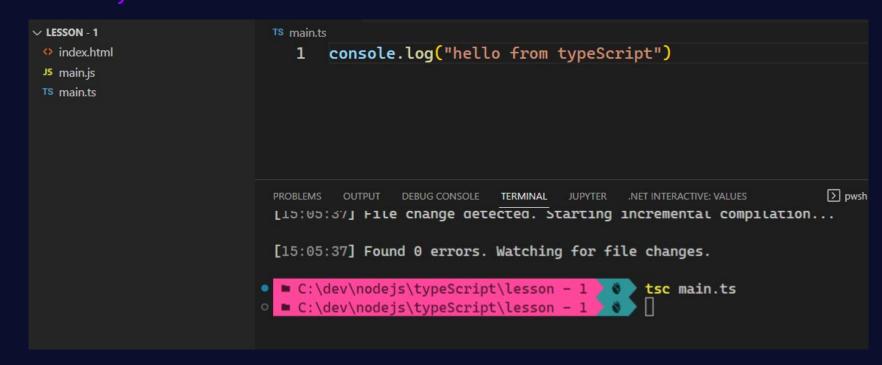


Load TypeScript:

create main.ts file write some code and save the file. open cmd/terminal and write

tsc main.ts

if the compile done success it will create main.js file





TypeScript Config: tsconfig.json

the config file control the ts compiler settings open cmd/terminal and write

tsc --init

this command will create tsconfig.json file



Operators: Arithmetic Operators

Operator	Description	Example
+ (Addition)	returns the sum of the operands	a + b is 15
- (Subtraction)	returns the difference of the values	a - b is 5
* (Multiplication)	returns the product of the values	a * b is 50
/ (Division)	performs division operation and returns the quotient	a / b is 2
% (Modulus)	performs division operation and returns the remainder	a % b is 0
++ (Increment)	Increments the value of the variable by one	a++ is 11
(Decrement)	Decrements the value of the variable by one	a is 9



Operators: Relational Operators

Operator	Description	Example
>	Greater than	(A > B) is False
<	Lesser than	(A < B) is True
>=	Greater than or equal to	(A >= B) is False
<=	Lesser than or equal to	(A <= B) is True
==	Equality	(A == B) is false
II-	Not equal	(A != B) is True



Operators: Logical Operators

Operator	Description	Example
&& (And)	The operator returns true only if all the expressions specified return true	(A > 10 && B > 10) is False
(OR)	The operator returns true if at least one of the expressions specified return true	(A > 10 B >10) is True
! (NOT)	The operator returns the inverse of the expression's result. For E.g.: !(>5) returns false	!(A >10) is True



Operators: Assignment Operators

Operator	Description	Example
= (Simple Assignment)	Assigns values from the right side operand to the left side operand	C = A + B will assign the value of A + B into C
+= (Add and Assignment)	It adds the right operand to the left operand and assigns the result to the left operand.	C += A is equivalent to C = C + A
-= (Subtract and Assignment)	It subtracts the right operand from the left operand and assigns the result to the left operand.	C -= A is equivalent to C = C - A
*= (Multiply and Assignment)	It multiplies the right operand with the left operand and assigns the result to the left operand.	C *= A is equivalent to C = C * A
/= (Divide and Assignment)	It divides the left operand with the right operand and assigns the result to the left operand.	



Simple Cast:

string to number

```
let days = Number("22")
console.log(days) // 22
let days = Number("5.7")
console.log(days) // 5.7
```

string to Int

```
let days = parseInt("22")
console.log(days) // 22
let days = parseInt("5.7")
console.log(days) // 5
```

number to string

```
let days = 10.toString()
console.log(days) // "10"

let days = (5.7).toString()
console.log(days) // "5.7"

let days = (2.232).toFixed(2)
console.log(days) // "2.23"

let days = (2.232).toFixed()
console.log(days) // "2"
```



Exercise:

https://docs.google.com/document/d/11k2O1AIZ4NRm qp-pltOB52_FptavfbtAt-GWMnnfERQ/edit?usp=sharing



Q&A





