ОБРАБОТКА ИСКЛЮЧЕНИЙ (ОШИБОК)

THROW

```
notDifenedVar(); // Uncaught ReferenceError: notDifenedVar is not def
3.14 = +Math.PI.toFixed(2)
// 3.14 === +Math.PI.toFixed(2)
// Uncaught ReferenceError: Invalid left-hand side in assignment
i ==== 2 // Uncaught SyntaxError: Unexpected token =
```

КОСТРУКТОР ERROR

- 1. EvalError
- 2. InternalError
- 3. RangeError
- 4. ReferenceError
- 5. SyntaxError
- 6. TypeError
- 7. URIError

```
let mySyntaxError = new SyntaxError("I don't like your syntax");
throw mySyntaxError;
```

TRY CATCH FINALLY

```
try {
   try_statements
}
[catch (exception_var_2) {
   catch_statements_2
}]
[finally {
   finally_statements
}]
```

```
let mySyntaxError = new SyntaxError("I don't like your syntax");

try {
  throw mySyntaxError;
} catch(e) {
  console.log("Display error message:", e.message);
}
```

```
let checkname = name => {
  if(name.trim().length > 0) return true;

  throw new Error("Name should not be empty!");
}

try {
  checkname(" ");
} catch(e) {
  console.error("name is not valid");
}
```

```
let checkname = name => {
  if(name.trim().length > 0) return true;

  throw new Error("Name should not be empty!");
}

try {
  checkname(" ");
} finally {
  console.log("do it anyway");
}
```

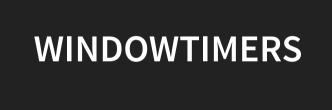
ОБЕЩАНИЕ (PROMISE)

СИНХРОННОСТЬ И АСИХРОННОСТЬ

```
console.log(1);
console.log(2);

setTimeout(function() {
   console.log(3);
});

console.log(4);
```



```
// var timeoutID = window.setTimeout(func, delay, [param1, param2, ...
// window.clearTimeout(timeoutID);
setTimeout(function() {
  console.log("hello everybody!");
}, 1500);
```

```
// var timeoutID = window.setInterval(func, delay, [param1, param2,

// window.clearInterval(timeoutID);

let i = 1,
    destroy = setInterval(function() {
        console.log(i++);
        if(i > 5) clearInterval(destroy);
        }, 500);
```

```
// new Promise( /* executor */ function(resolve, reject) { ... } );
let promise = new Promise(startTimeout);
promise
   .then(displayNumber)
   .catch(displayError);

// or
promise
   .then(displayNumber, displayError);
```

```
function startTimeout(resolve, reject) {
  setTimeout(function() {
    resolve(2000);
  }, 2000);
}
function displayNumber(res) { console.info(`${res} ms`) }

function displayError(err) { console.error(err) };
```