12.10.2021

1. How to declare a variable

You can declare a variable by inserting the keyword **var** before giving the variable a name or a value.

2. Variable types

Variables can be given as simple numbers, strings witch are pieces of text, Booleans that are true and false values and arrays that are single objects that contain multiple values.

3. What is a function?

Functions are blocks of code that you can use again and again in order to save the need to repeat the same code.

4. List some arithmetic operators

- + addition
- - subtraction
- * multiplication
- / division
- % remainder

5. What are assignment operators?

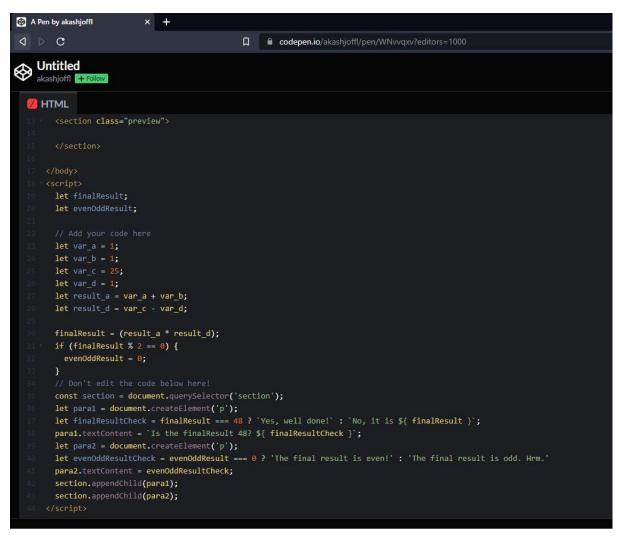
assignment operator are used to assign a value to a variable

6. what is a loop?

Loops allow you to run code again and again until a certain assigned condition is met.

7. Error Types-Syntax and Logic?

Syntax errors mean there are spelling errors in your code, logic errors on the other hand mean your code is not what you intended it to be so it runs but doesn't function as planned.



Is the finalResult 48? Yes, well done!

The final result is even!



```
Untitled

**saction**

**Casection**

**Casection**
```

Your finalResult is 10.42

finalNumber is a number type. Well done!



```
With State State
```

```
MHTML
        let ostrichHeight = 2;
        let pwd1 = 'stromboli';
        let pwd2 = 'stROmBoLi'
    let weightComparison = eleWeight < mouseWeight? true : false;</pre>
    let heightComparison = ostrichHeight > duckHeight? true : false;
    let pwdMatch = pwd1 === pwd2? true : false;
        const section = document.querySelector('section');
        let para1 = document.createElement('p');
        let para2 = document.createElement('p');
        let para3 = document.createElement('p');
        let weightTest = weightComparison ? 'True - elephants weight less than mice!?' : 'False - of course an elephant is heavier than a mouse!';
        let heightTest = heightComparison ? 'True - an ostrich is indeed taller than a duck!' : 'False - apparently a duck is taller than an ostrich!?';
        let pwdTest = pwdMatch ? 'True - the passwords match.' : 'False - the passwords do not match; please check them';
       para1.textContent = weightTest;
        section.appendChild(para1);
        para2.textContent = heightTest;
        section.appendChild(para2);
```

False — of course an elephant is heavier than a mouse!

True — an ostrich is indeed taller than a duck!

False — the passwords do not match; please check them