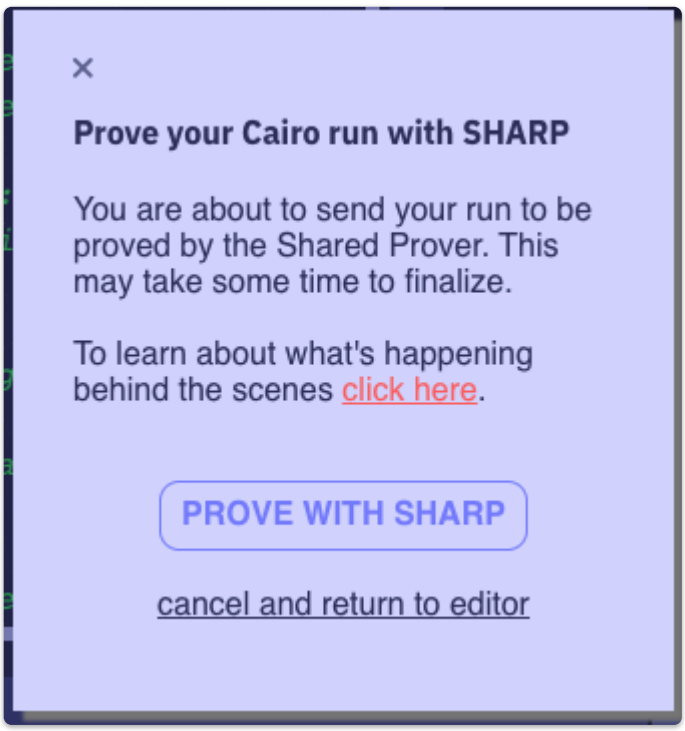
1. Try out the GOL2 on Starknet
   Instructions are here

2. Cairo Playground

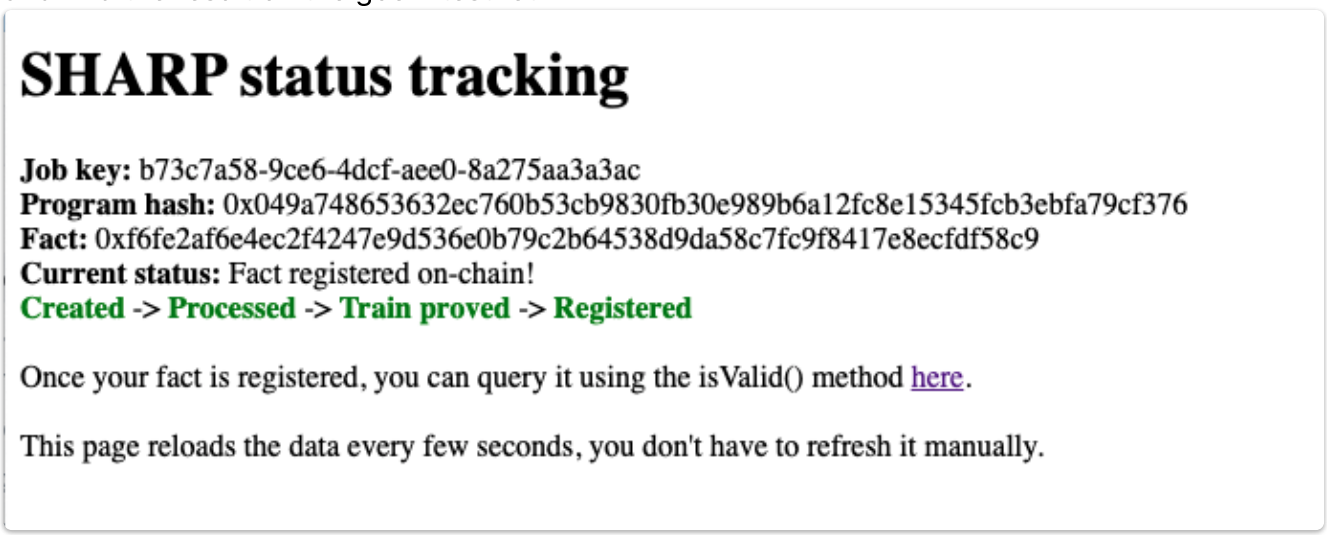
   Start the playground at
   https://www.cairo-lang.org/playground/

   Try the first 3 challenges : Hello playground, Ouput and Functions

Try sending your code to the SHARP prover



and find the result on the goerli testnet



Using the block explorer
https://voyager.online

Have a look at some transactions that have been accepted on L1

Environment on gitpod

I have set up an environment on gitpod, please make sure this works for you
Go to http://gitpod.io
and use the repo https://github.com/ExtropyIO/ZKPBootcamp/

or go direct to URL
https://gitpod.io/#https://github.com/ExtropyIO/ZKPBootcamp
Then follow the instructions in the Practicals/Cairo1 directory to setup the environment.

3. Taking our initial program and use either the playground or gitpod

```
%builtins output

from starkware.cairo.common.serialize import serialize_word

func main{output_ptr : felt*}():
    serialize_word(1234)
    serialize_word(4321)
    return ()
end
```

Try adjusting the output amounts (you can use literals) to give investigate division
try :
1. 6 divided by 3
2. 7 divided by 3

4. Write a function to add 3 numbers and return the result

5. Checking the correctness of your computation on the shared prover (SHARP)

```
%builtins output

func main(output_ptr : felt*) -> (output_ptr : felt*):
    alloc_locals
    local x
    %{ ids.x = program_input['x'] %}

        # Add assert statement here
        # to show x is a root
        return (output_ptr=output_ptr + 1)
end
```