

# **STATEMENT**

☐ In the second section various functions of hash functions were to be studied and to secure the data from ethical hackers

# **OBJECTIVE**

The main objective of this is to study is to know about various hash functions.

To execute the code and learn the language successfully

# INSTALLATION OF THE SOFTWARE SOFTWARE SETUP STUDY ON LANGUAGE PROGRAMMING AND EXCECUTION

# INSTALLATION

The software used is Ubuntu



In that from Zokrates repository the files were retrieved and executed for database setup

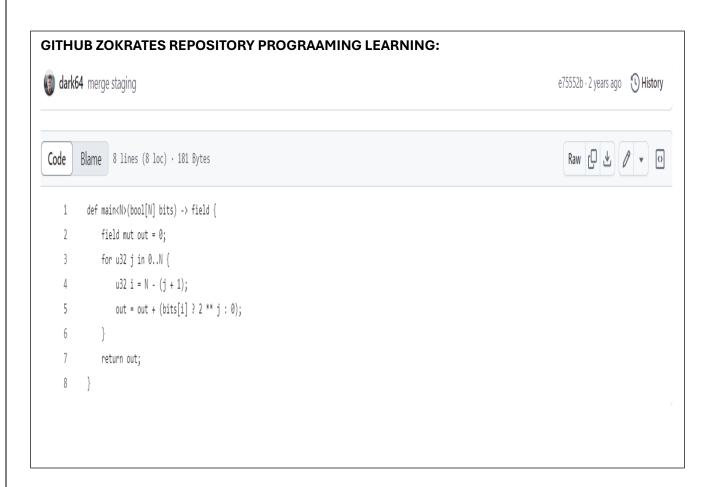


After setup the codes for specific tasks were executed.



The detailed explanation and the execution of codes were explained in the upcoming slides.







## ZoKrates / zokrates\_stdlib / stdlib / utils / pack / bool / pack256.zok 🗗



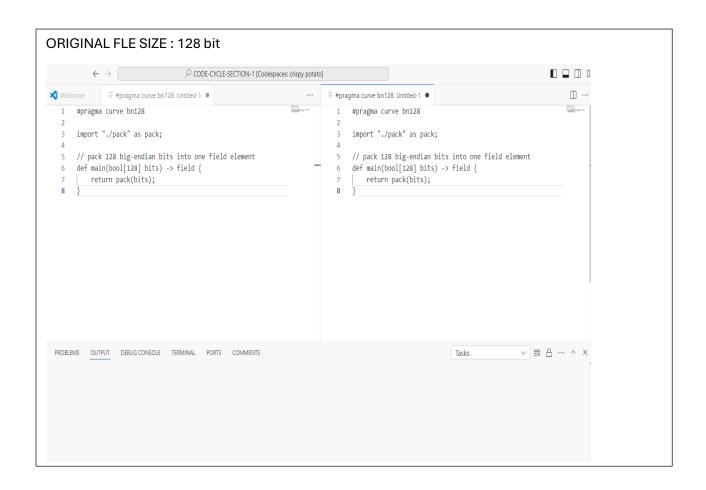
dark64 change syntax in core and stdlib tests

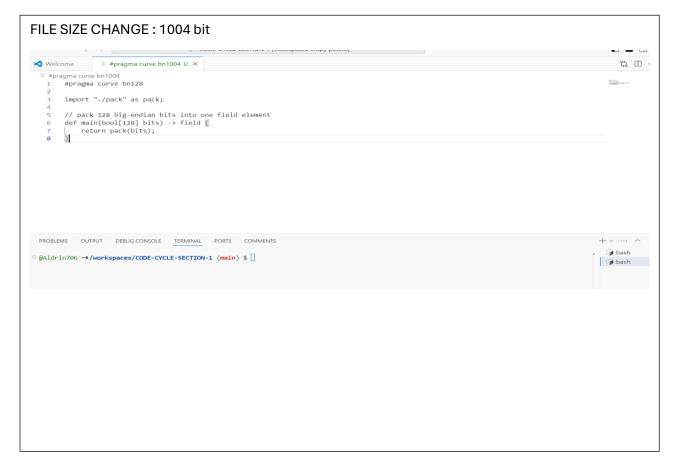
```
Code
        Blame
                10 lines (8 loc) · 312 Bytes
          #pragma curve bn128
    1
    2
         import "./pack" as pack;
    3
    4
         // pack 256 big-endian bits into one field element
    5
         // Note: This is not a injective operation as `p` is smaller than `2**256 - 1` for bn128
    6
    7
        // For example, `[0, 0,..., 0]` and `bits(p)` both point to `0`
    8
        def main(bool[256] bits) -> field {
    9
             return pack(bits);
   10
```

```
.... 01 2110110.
 = 21267647932558653966532970558541271056
        GENERATE HASH
                                               CLEAR
```

### SHA-512 OUTPUT:

7c7e8842b312faeae9f981b8e746dab65a5ff76e31ecbd1 d83125e955a516595070febaa02896aeddb8593967f8a7 619fa85e4af277b6f90c713d617519fcdb3





☐Therefore much as	the language was able to learn as
_	us features were explored
	ng is executed
	ze was changed
	r overview about the programming able to learn in a fruitful manner.

