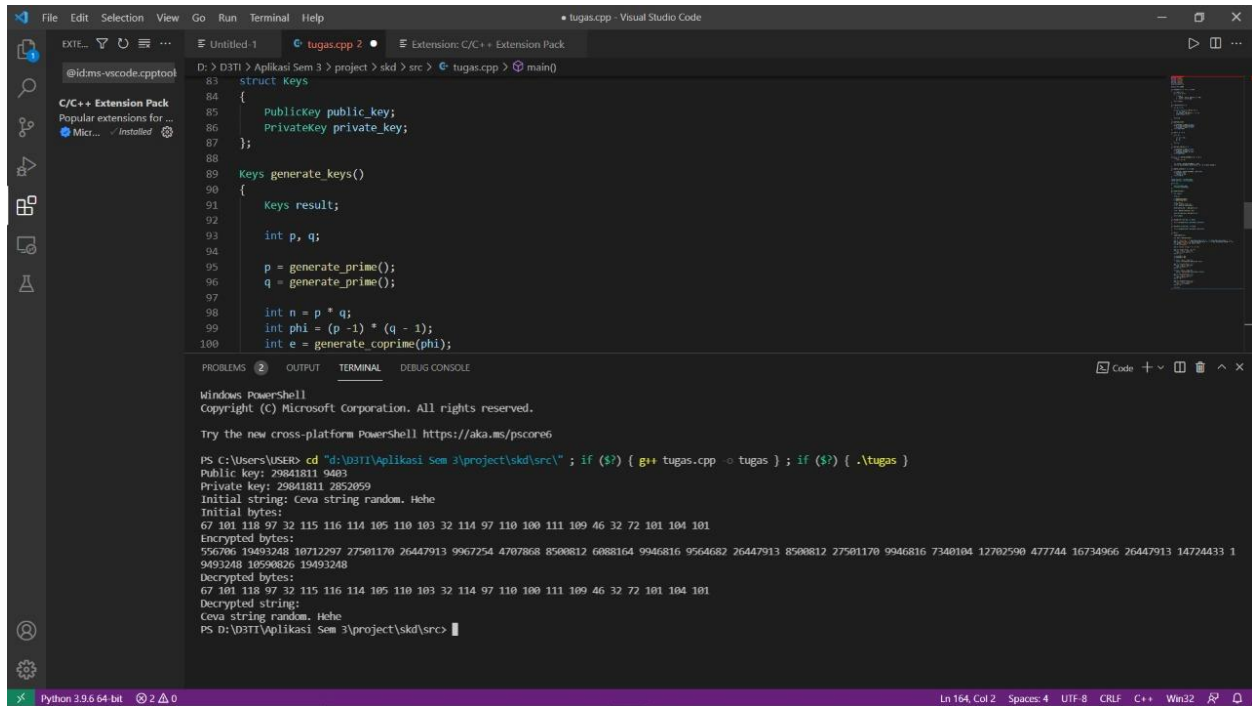


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Kelas : TI D

## SISTEM KEAMANAN DATA



The screenshot displays the Visual Studio Code interface. The editor shows a C++ file named `tugas.cpp` with the following code:

```
83 struct Keys
84 {
85     PublicKey public_key;
86     PrivateKey private_key;
87 };
88
89 Keys generate_keys()
90 {
91     Keys result;
92
93     int p, q;
94
95     p = generate_prime();
96     q = generate_prime();
97
98     int n = p * q;
99     int phi = (p - 1) * (q - 1);
100     int e = generate_coprime(phi);
```

The terminal window shows the execution of the program in a Windows PowerShell environment. The output is as follows:

```
PS C:\Users\USER> cd "d:\D3TI\Aplikasi Sem 3\project\skd\src\" ; if ($?) { g++ tugas.cpp -o tugas ; if ($?) { .\tugas }
Public key: 29841811 9489
Private key: 29841811 2852059
Initial string: Ceva string random. Hehe
Initial bytes:
67 101 118 97 32 115 116 114 105 110 103 32 114 97 110 100 111 109 46 32 72 101 104 101
Encrypted bytes:
156706 19493248 10712297 27501170 26447913 9967254 4707868 8500812 6088164 9946816 9564682 26447913 8500812 27501170 9946816 7340104 12702590 477744 16734966 26447913 14724433 1
9493248 10590826 19493248
Decrypted bytes:
67 101 118 97 32 115 116 114 105 110 103 32 114 97 110 100 111 109 46 32 72 101 104 101
Decrypted string:
Ceva string random. Hehe
PS D:\D3TI\Aplikasi Sem 3\project\skd\src>
```

The status bar at the bottom indicates the editor is using Python 3.9.6 64-bit, has 2 errors, and is on line 164, column 2.