Southern University of Science and Technology

CS303

Operating Systems Laboratory

Your Name
Some Colleage
Your Id

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1 Implement a File System

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1.3 Code

This template use minted to provide syntax highlight functions, you need to install it with following commands:

```
1    pip install Pygments
```

Here are some examples:

Multi-line of Codes

```python
1    import numpy as np
2
3    def incmatrix(genl1,genl2):
4        m = len(genl1)
5        n = len(genl2)
6        M = None #to become the incidence matrix
7        VT = np.zeros((n*m,1), int)  #dummy variable
8
9        #compute the bitwise xor matrix
10       M1 = bitxormatrix(genl1)
11       M2 = np.triu(bitxormatrix(genl2),1)
12
13       # f = \int_0^{inf} x^2
14       for i in range(m-1):
15           for j in range(i+1, m):
16               [r,c] = np.where(M2 == M1[i,j])
17               for k in range(len(r)):
18                   VT[(i)*n + r[k]] = 1;
19                   VT[(i)*n + c[k]] = 1;
20                   VT[(j)*n + r[k]] = 1;
21                   VT[(j)*n + c[k]] = 1;
```

```
22
23                    if M is None:
24                        M = np.copy(VT)
25                    else:
26                        M = np.concatenate((M, VT), 1)
27
28                    VT = np.zeros((n*m,1), int)
29
30          return M
```

2 Implement a Cache

References