物聯網實務第五周作業

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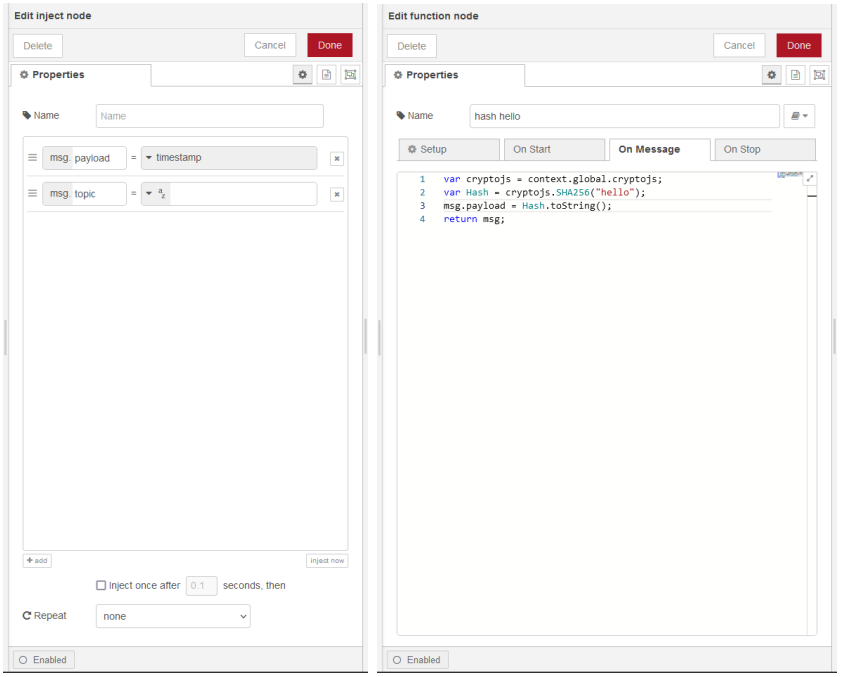
Exercise 5-1 Hash "hello".

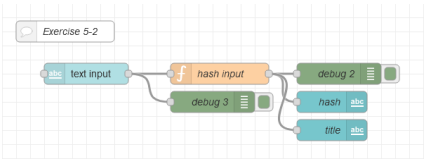
(a) Node-RED Flow (b) debug



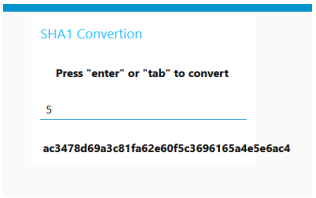
(c) timestamp (d) hash hello

Figure 1: Exercise 5-1.

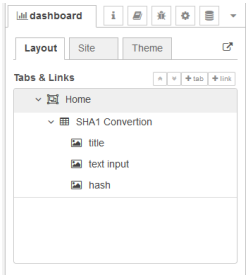
Exercise 5-2 Hash input in dashboard.



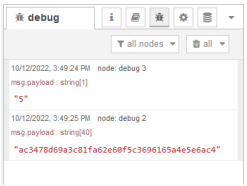
(a) Node-RED Flow



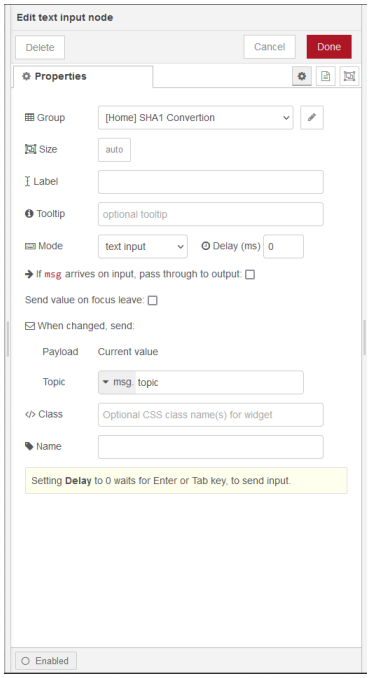
(b) Dashboard



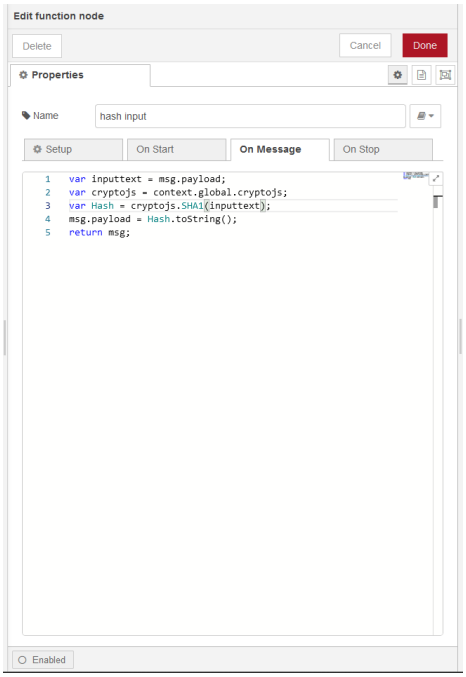
(c) dashboard layout



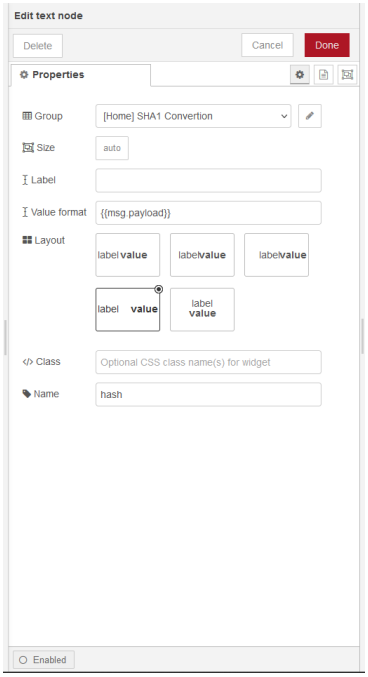
(d) debug



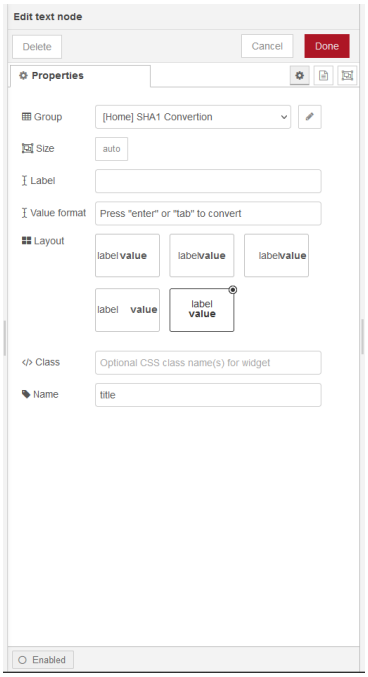
(e) text input



(f) hash input



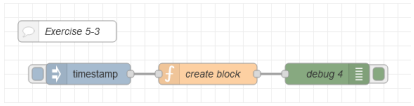
(g) hash



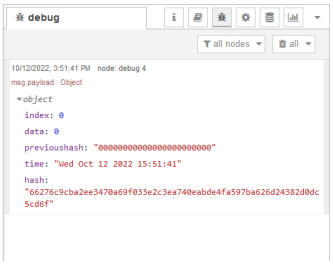
(h) title

Figure 2: Exercise 5-2.

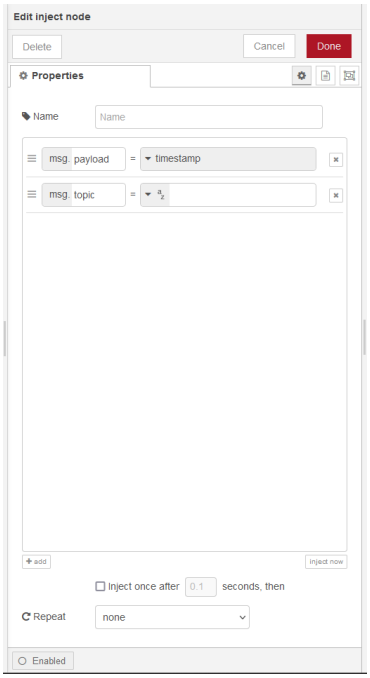
Exercise 5-3 Create genesis block.



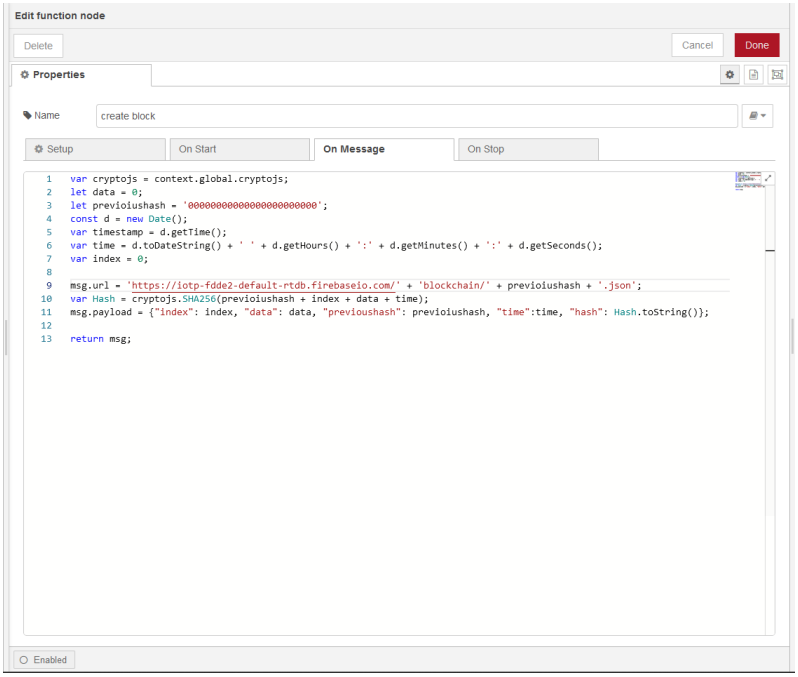
(a) Node-RED Flow



(b) debug



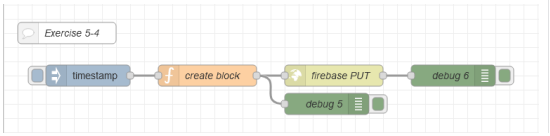
(c) timestamp



(d) create block

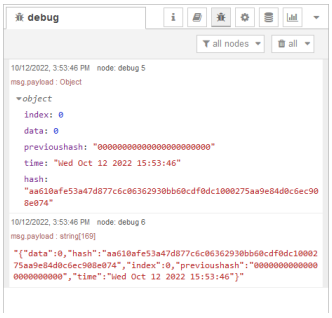
Figure 3: Exercise 5-3.

Exercise 5-4 Create and store genesis block.

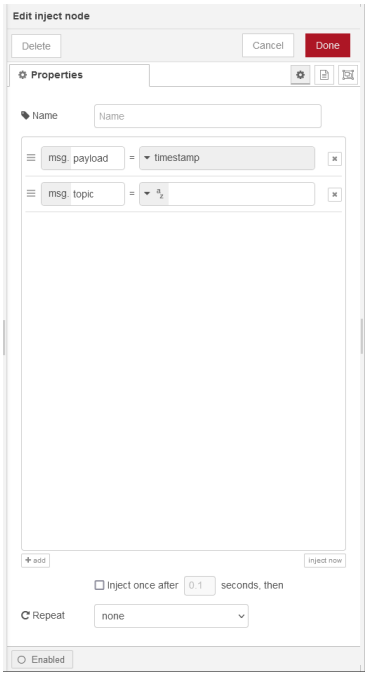


(a) Node-RED Flow

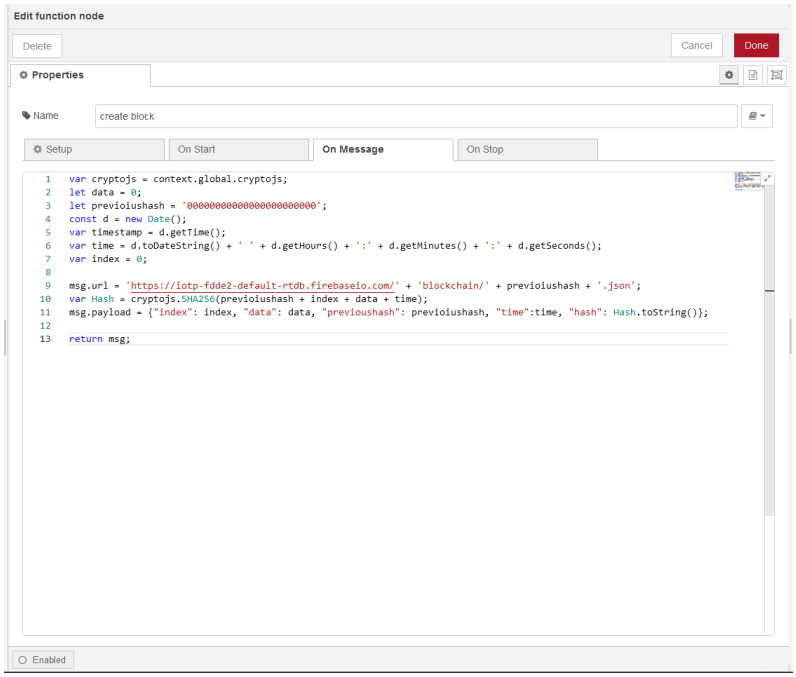
(b) Firebase



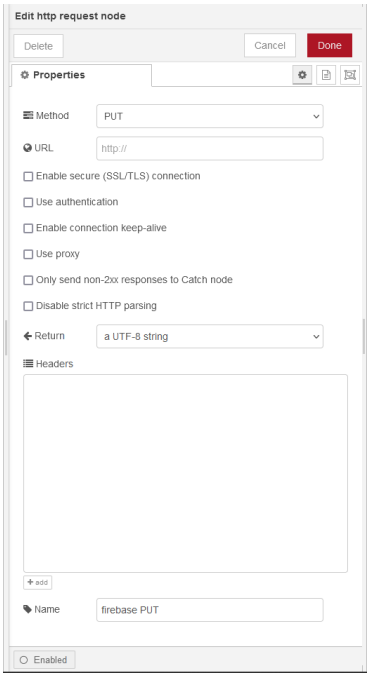
(c) debug



(d) timestamp



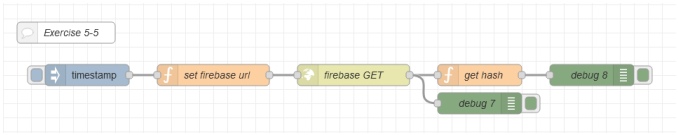
(e) create block



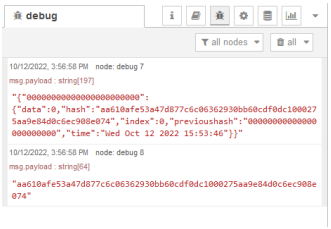
(f) firebase PUT

Figure 4: Exercise 5-4.

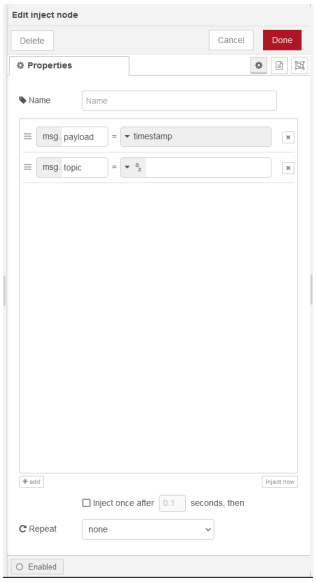
Exercise 5-5 Get genesis block's hash.



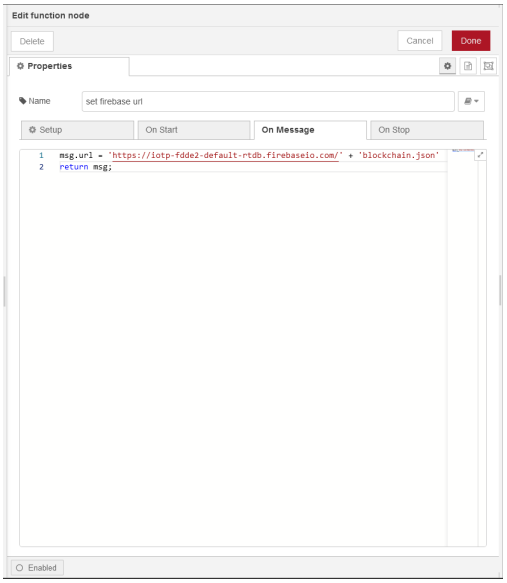
(a) Node-RED Flow



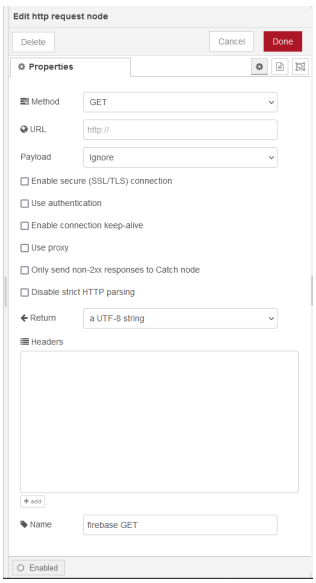
(b) debug



(c) timestamp



(d) set firebase url



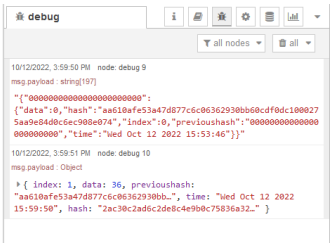
(e) firebase GET

(f) get hash

Figure 5: Exercise 5-5.

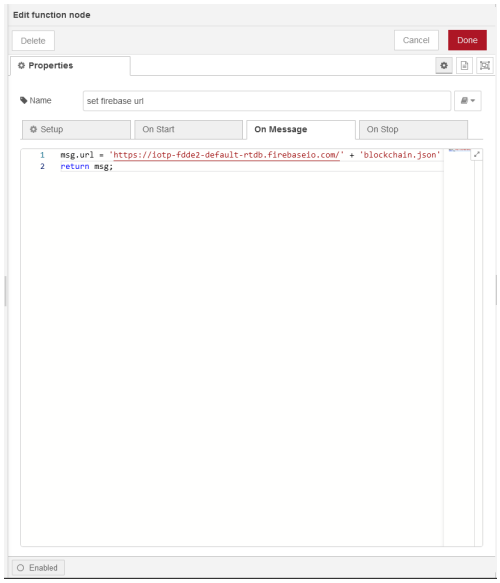
Exercise 5-6 Create the following blocks.

(a) Node-RED Flow

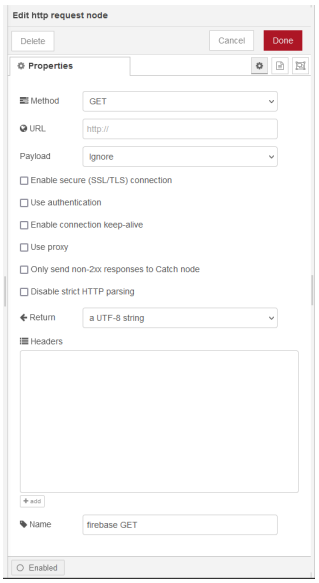


(b) debug

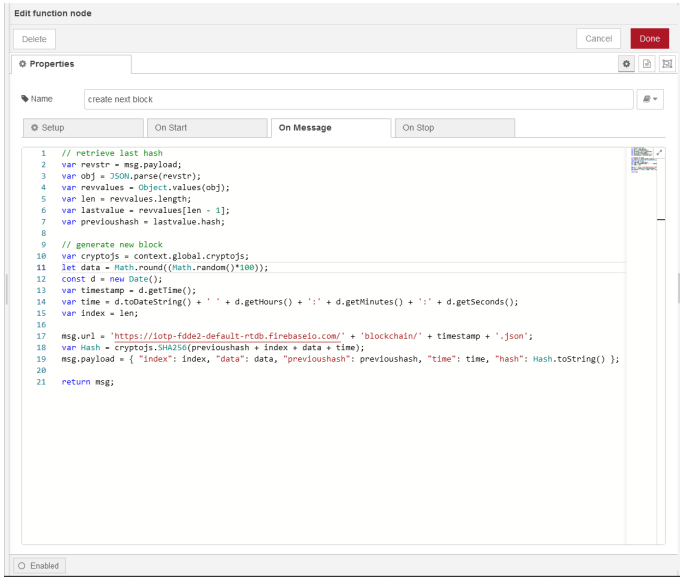
(c) timestamp



(d) set firebase url



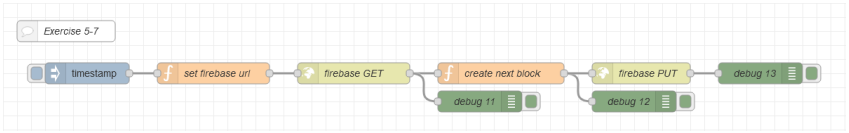
(e) firebase GET



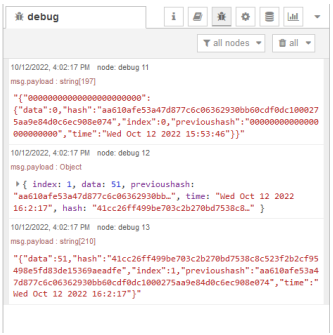
(f) create next block

Figure 6: Exercise 5-6.

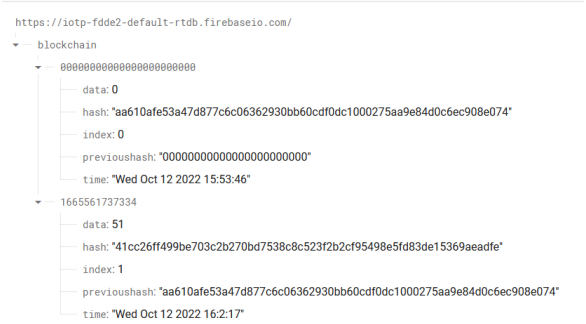
Exercise 5-7 Create and store the following blocks.



(a) Node-RED Flow

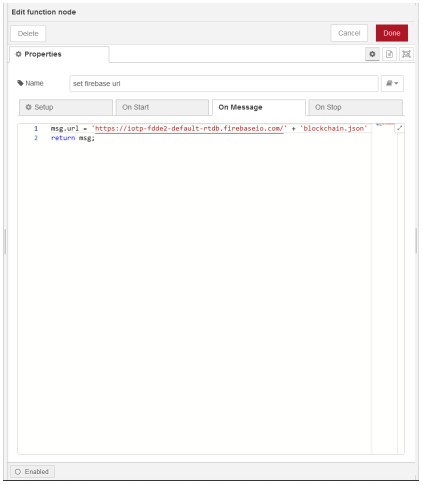


(b) debug

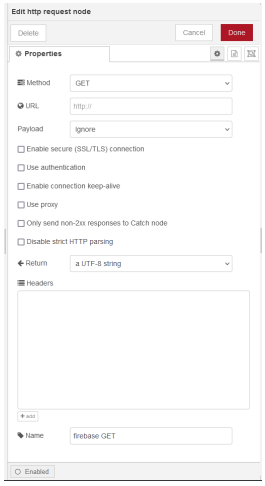


(c) Firebase

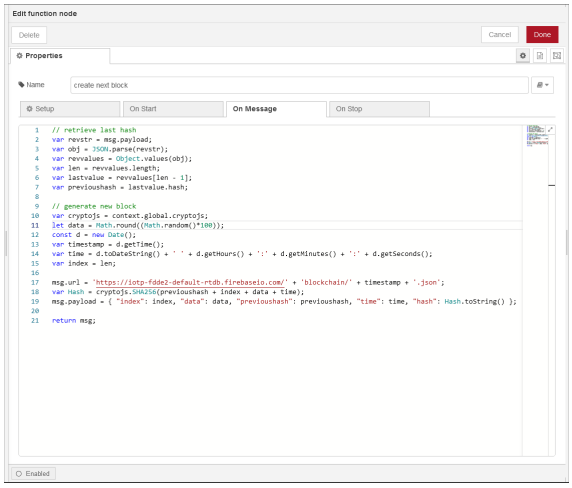
(d) timestamp



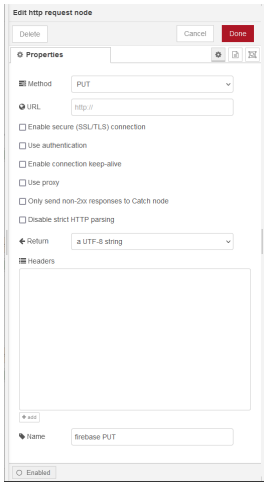
(e) set firebase url



(f) firebase GET



(g) create next block



(h) firebasePUT

Figure 7: Exercise 5-7.