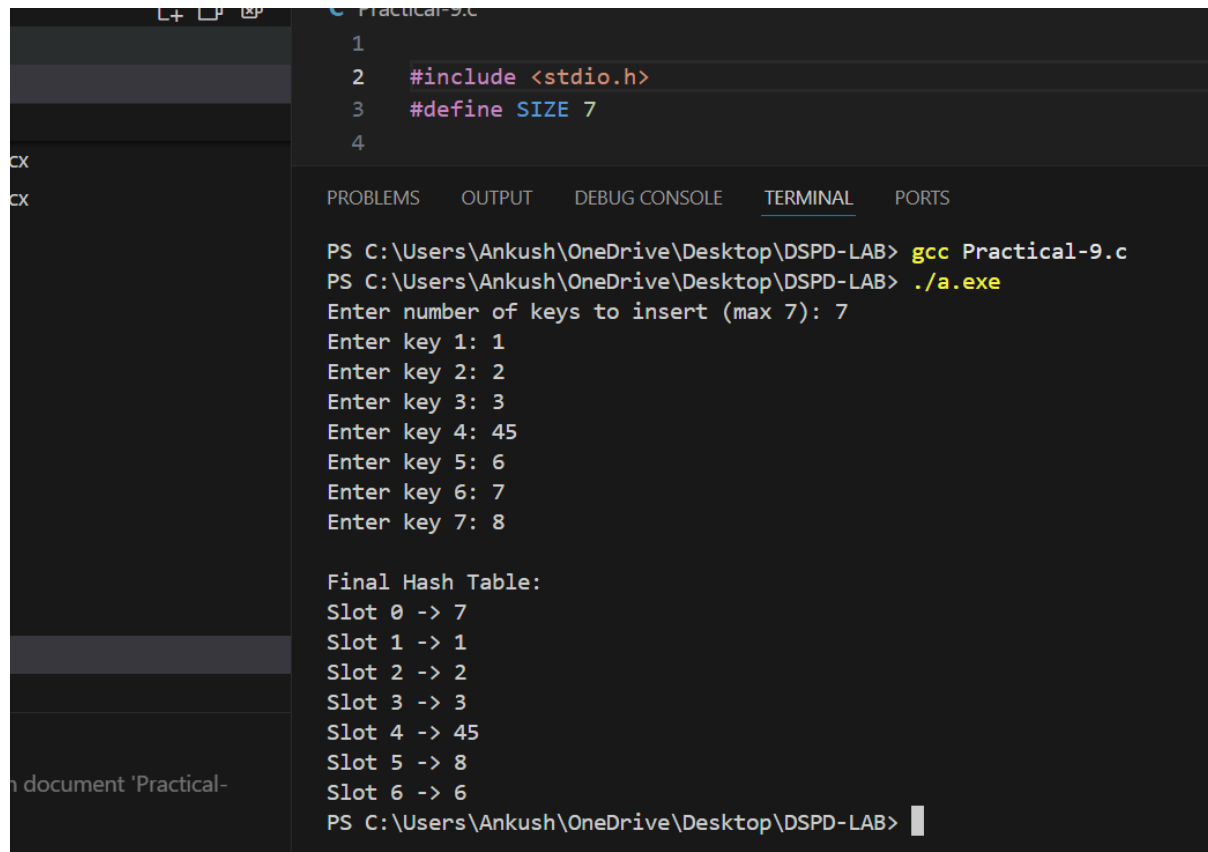


DATA STRUCTURE AND PROGRAM DESIGN LAB-08

9. Assume that you have a seven-slot closed hash table (the slots are numbered 0 through 6) Write program to find hash table that would result if you used the hash function $h(k) = k \bmod 7$

SAMPLE OUTPUT:



```
1
2 #include <stdio.h>
3 #define SIZE 7
4
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB> gcc Practical-9.c
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB> ./a.exe
Enter number of keys to insert (max 7): 7
Enter key 1: 1
Enter key 2: 2
Enter key 3: 3
Enter key 4: 45
Enter key 5: 6
Enter key 6: 7
Enter key 7: 8

Final Hash Table:
Slot 0 -> 7
Slot 1 -> 1
Slot 2 -> 2
Slot 3 -> 3
Slot 4 -> 45
Slot 5 -> 8
Slot 6 -> 6
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB>
```