

```
1 C:\Users\jmks8\.jdk\openjdk-17.0.1\bin\java.exe "-  
  javaagent:C:\Program Files\JetBrains\IntelliJ IDEA  
  Community Edition 2023.1.2\lib\idea_rt.jar=62803:C:\  
  Program Files\JetBrains\IntelliJ IDEA Community  
  Edition 2023.1.2\bin" -Dfile.encoding=UTF-8 -  
  classpath C:\JMKS\CIS\Java\CoreJava\out\production\  
  CoreJava June20.Main  
2 Using entrySet()  
3 FirstName: S3 Student Object: StudentHashMap{lastName  
  ='ln3', GPA=9.2}  
4 FirstName: S4 Student Object: StudentHashMap{lastName  
  ='ln4', GPA=9.8}  
5 FirstName: S5 Student Object: StudentHashMap{lastName  
  ='ln5', GPA=9.1}  
6 FirstName: S6 Student Object: StudentHashMap{lastName  
  ='ln6', GPA=8.8}  
7 FirstName: S7 Student Object: StudentHashMap{lastName  
  ='ln7', GPA=8.6}  
8 FirstName: S8 Student Object: StudentHashMap{lastName  
  ='ln8', GPA=9.6}  
9 FirstName: S1 Student Object: StudentHashMap{lastName  
  ='ln1', GPA=6.5}  
10 FirstName: S2 Student Object: StudentHashMap{lastName  
  ='ln2', GPA=7.2}  
11  
12 Using forEach()  
13 FirstName: S3 Student Object: StudentHashMap{lastName  
  ='ln3', GPA=9.2}  
14 FirstName: S4 Student Object: StudentHashMap{lastName  
  ='ln4', GPA=9.8}  
15 FirstName: S5 Student Object: StudentHashMap{lastName  
  ='ln5', GPA=9.1}  
16 FirstName: S6 Student Object: StudentHashMap{lastName  
  ='ln6', GPA=8.8}  
17 FirstName: S7 Student Object: StudentHashMap{lastName  
  ='ln7', GPA=8.6}  
18 FirstName: S8 Student Object: StudentHashMap{lastName  
  ='ln8', GPA=9.6}  
19 FirstName: S1 Student Object: StudentHashMap{lastName  
  ='ln1', GPA=6.5}  
20 FirstName: S2 Student Object: StudentHashMap{lastName
```

```
20 ='ln2', GPA=7.2}
21
22 Using KeySet and Iterator
23 FirstName: S3 Student Object: StudentHashMap{lastName
   ='ln3', GPA=9.2}
24 FirstName: S4 Student Object: StudentHashMap{lastName
   ='ln4', GPA=9.8}
25 FirstName: S5 Student Object: StudentHashMap{lastName
   ='ln5', GPA=9.1}
26 FirstName: S6 Student Object: StudentHashMap{lastName
   ='ln6', GPA=8.8}
27 FirstName: S7 Student Object: StudentHashMap{lastName
   ='ln7', GPA=8.6}
28 FirstName: S8 Student Object: StudentHashMap{lastName
   ='ln8', GPA=9.6}
29 FirstName: S1 Student Object: StudentHashMap{lastName
   ='ln1', GPA=6.5}
30 FirstName: S2 Student Object: StudentHashMap{lastName
   ='ln2', GPA=7.2}
31
32 Character Count
33 r-1
34 s-2
35 t-3
36 e-1
37 g-1
38 i-1
39 n-1
40
41 Finding Two Sum
42 [3,5]
43
44 Process finished with exit code 0
45
```