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Subject Code: 20CSP - 321

Subject Name: Programming Based Learning in Java

EXPERIMENT - 05

PROBLEM STATEMENT :

Playing cards during travel is a fun filled experience. For this game they wanted to collect all four unique symbols. Can you help these guys to collect unique symbols from a set of cards?

Create Card class with attributes symbol and number. From our main method collect each card details (symbol and number) from the user.

Collect all these cards in a set, since set is used to store unique values or objects.

Once we collect all four different symbols display the first occurrence of card details in alphabetical order.

CODE :

```
import java.util.*;
public class exp2_2 {
    public static void main(String args[]){
        int count = 0, number = 0;

        HashMap<String,Integer> mp= new HashMap<String,Integer>();
        Scanner sc = new Scanner(System.in);

        while(count != 4){
            number++;
            System.out.println("\nEnter card :");
            String key = sc.next();
            int val = sc.nextInt();

            if(mp.containsKey(key)){
                continue;
            }
            else{
                mp.put(key,val);
                count++;
            }
        }
    }
}
```



```
System.out.println("\nFour symbols gathered in " + number + " cards.");
System.out.println("\nCards in Set are :");

for (Map.Entry<String,Integer> mapElement : mp.entrySet()) {
    String key = mapElement.getKey();
    int value = mapElement.getValue();
    System.out.println(key + " : " + value);
}
}
```

OUTPUT :

```
cd "/Users/tejasnirala/PBLJ/untitled/src/" && javac exp2_2.java && java exp2_2
(base) tejasnirala@Tejass-MacBook-Air untitled % cd "/Users/tejasnirala/PBLJ/untitled/src/"

Enter card :
a 1

Enter card :
a 2

Enter card :
a 7

Enter card :
d 6

Enter card :
c 2

Enter card :
d 1

Enter card :
c 1

Enter card :
b 2

Four symbols gathered in 8 cards.

Cards in Set are :
a : 1
b : 2
c : 2
d : 6
(base) tejasnirala@Tejass-MacBook-Air src %
```