Object Oriented Analysis And Design UE19CS353

6th Semester, Academic Year 2021-22

Week #: 1 - Java Programming

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Section:

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Code:

```
public static void main(String[] args)
   Pile P = new Pile();
   Scanner sc1 = new Scanner(System.in);
   Scanner sc2 = new Scanner(System.in);
   Scanner sc3 = new Scanner(System.in);
   boolean end = false;
   while(!end)
       System.out.println("1. Place a card");
       System.out.println("2. Draw a card");
       System.out.println("3. Peek");
       System.out.println("4. Exit");
       choice = scl.nextInt();
       System.out.println();
        switch(choice)
            case 1:
               System.out.println("Enter the Card Suit:");
               suit = sc2.nextLine();
               System.out.println();
               System.out.println("Enter the Card Value:");
               val = sc3.nextLine();
               System.out.println();
               Card c = new Card(suit, val);
               P.push(c);
               break;
            case 2:
               P.pop();
            case 3:
               P.peak();
               break;
            case 4:
               end = true;
               System.out.println("Try Again!");
    sc1.close(); sc2.close(); sc3.close();
```

```
import java.util.Scanner;
class Card
{
    String cardSuit, cardValue;
    Card(String suit, String val)
    {
        cardSuit = suit;
        cardValue = val;
    }
}
```

```
class Pile
   Card cards[] = new Card[10];
   Pile()
       n = 0;
   public void push(Card c)
       if(n < 10)
           cards[n] = new Card(c.cardSuit, c.cardValue);
           System.out.println("Full Deck!");
   public void peak()
       if(n-1 >= 0)
           System.out.println(cards[n-1].cardValue + " of " + cards[n-1].cardSuit + "\n");
           System.out.println("Empty Deck!\n");
   public void pop()
       if(n >= 1)
           System.out.println("You Drew: "+cards[n-1].cardValue + " of " + cards[n-1].cardSuit + "\n");
           System.out.println("Empty deck!\n");
```

Screenshots:

```
sumukhbhat2701@SRBs-PC$ javac Main.java
sumukhbhat2701@SRBs-PC$ java Main
1. Place a card
2. Draw a card
3. Peek
4. Exit
1
Enter the Card Suit:
Heart
Enter the Card Value:
10

    Place a card

2. Draw a card
3. Peek
4. Exit
1
Enter the Card Suit:
Club
Enter the Card Value:
A
1. Place a card
2. Draw a card
3. Peek
4. Exit
3
A of Club
```

```
1. Place a card
2. Draw a card
3. Peek
4. Exit
Enter the Card Suit:
Enter the Card Value:
Diamond
1. Place a card
Draw a card
3. Peek
4. Exit
Diamond of 4

    Place a card

2. Draw a card
Peek
4. Exit
2
You Drew: Diamond of 4
1. Place a card
2. Draw a card
3. Peek
4. Exit
A of Club
1. Place a card
2. Draw a card
3. Peek
4. Exit
2
You Drew: A of Club
1. Place a card
2. Draw a card
3. Peek
4. Exit
2
You Drew: 10 of Heart
```

- 1. Place a card
- Draw a card
 Peek
- 4. Exit

2

Empty deck!

- 1. Place a card
- 2. Draw a card
- 3. Peek
- 4. Exit