OOADJ Week2

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SRN - PES2UG19CS076

Class - 6B

1) Code

```
P1_week2.java - Notepad
File Edit Format View Help
import java.util.Arrays;
import java.util.Scanner;
class Card
     String suit;
    int value;
     Card(String suit, int value)
         this.suit = suit;
this.value = value;
     void display()
     System.out.println("Suit and Value are: "+this.suit+this.value);
class Pile
    int top=-1;
int temp=0;
Card arr[] = new Card[10];
     void place(Card card)
         if(top==9)
         System.out.println("Pile is full");
         else
              arr[top]=card;
              System.out.println("Card placed");
    }
             void draw()
                  if(top==-1)
                      System.out.println("Pile is empty");
                  else
                      top--;
System.out.println("Card drawn");
             }
             void peek()
                  if(top==-1)
                      System.out.println("Pile is empty");
                      arr[top].display();
            }
        }
```

```
public class P1_Week2
      public static void main(String[] args)
             //considering that the user has 5 cards with him
            //considering that the user has 5 ca
Card card[] = new Card[5];
card[0] = new Card("Spade",1);
card[1] = new Card("Heart",2);
card[2] = new Card("Clove",3);
card[3] = new Card("Club",4);
card[4] = new Card("Club",5);
Pile pile = new Pile();
Scanner s = new Scanner(System.in);
int on:
             int op;
             while(true)
             {
                   System.out.println("1.Place");
System.out.println("2.Draw");
System.out.println("3.Peek");
System.out.println("4.Exit");
System.out.println("Enter your choice");
op=s.nextInt();
witch(op)
                   switch(op)
                          case 1:
                                System.out.println("Enter the card number to be placed");
                                int card_num = s.nextInt();
if(card_num>5)
                                {
                                       System.out.println("Invalid card");
                                }
else
                                {
                                       pile.place(card[card_num-1]);
                                break;
                              case 2:
                                      pile.draw();
                                      break;
                               case 3:
                                      pile.peek();
                                      break;
                               case 4:
                                      s.close();
                                       System.exit(1);
                                       break;
                               default:
                                      System.out.println("Enter a valid number");
                      }
               }
       }
 }
              Type here to search
                                                                                                           Ħŧ
```

Output -:

```
Result

compiled and executed in 42.66 sec(s)

1.Place
2.Draw
3.Peek
4.Exit
Enter your choice
1
Enter the card number to be placed
2
Card placed
1.Place
2.Draw
3.Peek
4.Exit
Enter your choice
3
Suit and Value are: Heart2
1.Place
2.Draw
3.Peek
4.Exit
Enter your choice
4
```