## Міністерство освіти, науки, молоді та спорту України Національний університет «Львівська політехніка»

Кафедра СШІ

## Лабораторна робота №5 3 ООП

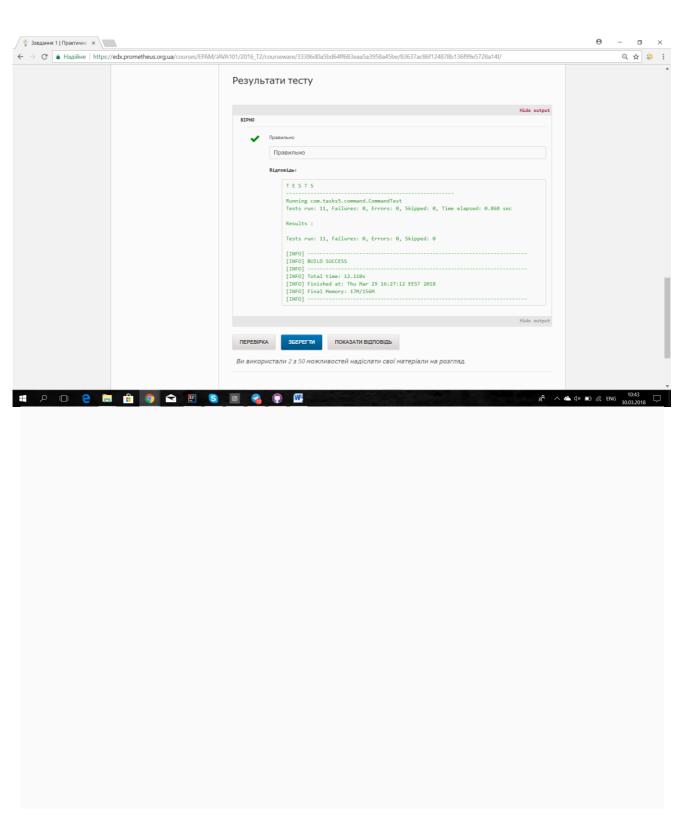
Виконав: ст. групи КН-107 Тимків А.І. Прийняв: Старший викладач СШІ Гасько Р.Т. Реалізуйте інтерфейс Command

## Код:

```
package com. tasks5. command;
public class Application {
    public static void main(String[] args) {
        //YOUR CODE COMES HERE
        class Commands {
             void help() {
                 System. out. println("Help executed");
             void echo(String s) {
                System. out. println(s);
            }
             void date() {
                 System. out. println(System. currentTimeMillis());
            }
             void exit() {
                 System. out. println("Goodbye!");
        }
        // ConcrateCommand
        class HelpCommand implements Command {
            private Commands com:
             HelpCommand (Commands com) {
                 this.com = com;
             @Override
             public void execute() {
                 com. help();
        }
        // ConcrateCommand
        class EchoCommand implements Command{
             private Commands com;
             String s;
             EchoCommand (Commands com, String s) {
                 this.com = com;
                 this. s = s;
             @Override
             public void execute() {
                 com. echo(s);
        1
        // ConcrateCommand
        class DateCommand implements Command{
             private Commands com;
```

```
DateCommand (Commands com) {
        this.com = com;
    @Override
    public void execute() {
        com. date();
    }
}
// ConcrateCommand
class ExitCommand implements Command{
    private Commands com;
    ExitCommand (Commands com) {
        this.com = com;
    @Override
    public void execute() {
        com. exit();
    }
}
if (args != null \&\& args. length > 0 \&\& args. length < 3) {
    Commands commands = new Commands ();
    switch (args[0]) {
        case "help":
            if (args. length == 1) {
                 Command help = new HelpCommand(commands);
                help. execute();
            }
            else
                 System. out. println("Error");
            break;
        case "echo":
            Command echo = new EchoCommand(commands, args[1]);
            echo. execute();
            break;
        case "date":
            if (args[1] == "now") {
                 Command date = new DateCommand(commands);
                 date. execute();
            }
            else
                 System. out. println ("Error");
            break;
        case "exit":
            if (args. length == 1) {
                 Command exit = new ExitCommand(commands);
                 exit. execute();
            }
            else
                 System. out. println("Error");
            break;
        default:
            System. out. println("Error");
    }
}
```

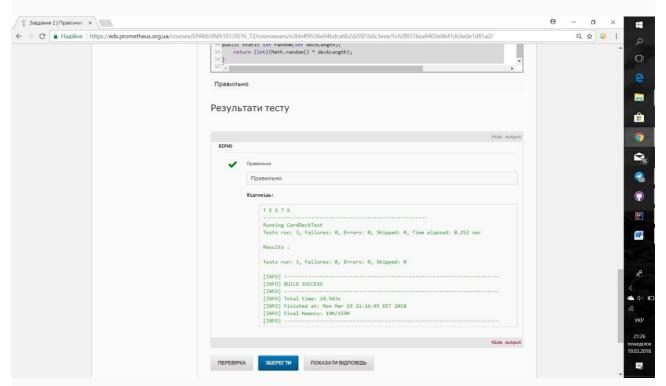
```
else {
          System.out.println("Error");
     }
}
```



```
for(int j = 0; j < Rank.values.length; j++) {
         deck[k] = new Card(Rank.values[j], Suit.values[i]);
         k++;
      }
   }
}
public void shuffle() {
   if(currentCardNumber >= 0){
      Card[] tempDeck = new Card[1];
      for(int k = 0; k < currentCardNumber + 1; k++){</pre>
         int a = random(currentCardNumber + 1);
         tempDeck[0] = deck[k];
         deck[k] = deck[a];
         deck[a] = tempDeck[0];
      }
  }
}
public void order() {
   Card[] tempDeck = new Card[deck.length];
   int n = 0;
   for(int i = 0; i < Suit.values.length; i++) {
      for(int j = 0; j < Rank.values.length; j++) {
         for(int k = 0; k <= currentCardNumber; k++){</pre>
```

```
if(deck[k].getSuit().getName().equals(Suit.values[i].getName()) &&
deck[k].getRank().getName().equals(Rank.values[j].getName())) {
              tempDeck[n] = deck[k];
              n++;
           }
        }
     }
  }
  deck = tempDeck;
}
public boolean hasNext() {
  return currentCardNumber >= 0;
}
public Card drawOne() {
  if(hasNext()){
     return deck[currentCardNumber--];
  }
   return null;
}
public static int random(int deckLength){
  return (int)(Math.random() * deckLength);
}
```

## Результат:



Завдання 3 Використовуючи рекурсію, виведіть на екран задане по порядковому номеру число Фібоначі.