nscc

Java Assignment 2

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PROG 1400-700

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1. Assignment2a

```
💣 Assignment2a.java 🗵
  1 ▶ public class Assignment2a {
2
           public static void main(String[] args) {
  3 🕨
  4
  5
                 // call the function 'exp' with the value of 2 to the exponent 8 \,
0-
                 int value = exp( base: 2, exponent: 8);
   6
   7
Pull Requests
  8
                 System.out.println(value);
  9
             //create a function with two int parameters
             public static int exp(int base, int exponent) {
  14
                 int value = 1;
                 for (int \underline{i}=0; \underline{i}<exponent; \underline{i}++) {
  16
                     value = value*base;
  18
  19
                 return value;
  20
      | |
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 202
      1
     ₽
  ĸ.
          Process finished with exit code 0
→ □
```

2. Assignment2b

```
💣 Assignment2b.java 🗵
         import java.util.Scanner;
        public class Assignment2b {
  3
  4
  5 🕨
             public static void main(String[] args) {
0-
   6
   7
                 // Take the current time using a Scanner.

→ Pull Requests

  8
                 Scanner s = new Scanner(System.in);
  9
                 System.out.println("Enter the current year, month, day, hour, minute, second:");
                 int year = s.nextInt();
                 int month = s.nextInt();
  14
                 int day = s.nextInt();
                 int hour = s.nextInt();
                 int minute = s.nextInt();
                 int second = s.nextInt();
  18
  19
                 // constructor for a new object
                 DateTime dt1 = new DateTime(year, month, day, hour, minute, second);
                 //call the method to print
                 dt1.printDateTime();
  24
       }
  25
        Assignment2b >
  Run:
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.3.1\lib
   \blacktriangleright
          Enter the current year, month, day, hour, minute, second:
  مو
      ₽
  3
     =+
          18
  Ō
          2
      =
  š
          The current time is: 2021-03-18T02:05:22
          Process finished with exit code \theta
```

3. Assignment2 c

```
assignment-2-Jeong1223 > src > © Assignment2c
   import java.util.Scanner;
2
         /*...*/
  3
12
       public class Assignment2c {
  13
              public static void main(String[] args) {
15 16 17 18 18
                 Double doubleGame = new Double();
                  doubleGame.Run();
   18
       public static class Double {
  19
              Player p1 = new Player(); //User
              Player p2 = new Player(); //Computer
              private void rollTheDice() {
   Run:
        Assignment2c
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBr
      \uparrow
          The Game Begins!
   مو
           You: $100, Computer: $100
      ₽
   You rolled: 10 and the computer rolled 6
          You LOST!
   O
          You have $60 and the computer have $120
   药
          Play again? (y/n) y
           The Game Begins!
           You: $60, Computer: $120
   ==
           You rolled: 6 and the computer rolled 7
           You LOST!
           You have $20 and the computer have $140
          Play again? (y/n) y
          The Game Begins!
           You: $20, Computer: $140
           You rolled: 5 and the computer rolled 5
           No Winner this time. Roll again!
          Play again? (y/n) y
           The Game Begins!
           You: $20, Computer: $140
... Structure
           You rolled: 4 and the computer rolled 10
           You have $-20 and the computer have $160
          The Game ends...
          Process finished with exit code 0
```

```
Assignment2c.java
          If one of the players lose all the money, game ends.
10
public class Assignment2c {
 public static void main(
             public static void main(String[] args) {
                 Double doubleGame = new Double();
Hadnests 16 17 18 18
                 doubleGame.Run();
             }
19
       public static class Double {
             Player p1 = new Player(); //User
             Player p2 = new Player(); //Computer
  24
             private void rollTheDice() {
  25
                 p1.roll();
                 p2.roll();
  26
  28
                 System.out.printf("You rolled: %d and the computer rolled %d\n", p1.total(), p2.total());
  Run:
       Assignment2c ×
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.3.1\lib\idea.
   \blacktriangleright
          The Game Begins!
  مو
          You: $100, Computer: $100
      =
  You rolled: 8 and the computer rolled 3
  You LOST!
  You have $60 and the computer have $120
          Play again? (y/n) n
  \rightarrow
          The Game ends...
  Process finished with exit code 0
```

4. Assignment2 d

```
assignment-2-Jeong1223 > src >  Assignment2d >  m main

✓ ■ assignment-2-Jeong1223 [PROG1 1 ▶ public class Assignment2d {

             > 🗎 .idea
           > out
                                                                                                                               public static void main(String[] args) {
                                                                                               3
Q Commit

✓ Image: Since the si
                            C Assignment2a
                                                                                               5
                                                                                                                                           HighLowGame game = new HighLowGame();
                             C Assignment2b
                                                                                               6
                                                                                                                                           game.Run();
                     Pull Requests
                             C Assignment2d
                            DateTime
                                                                                               9
                            © Die
                                                                                                                   }
                            C HighLowGame
                            Player
                      🖒 Assignment 2.pdf
                      README.md
        > III External Libraries
              Scratches and Consoles
                        Assignment2d >
                               c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDE
                1
                                Game Begins!
                  ₽
                               You: $100, Computer: $100
                 <u>=</u>+
                               What is your bet?50
        ō
                               The computer bets: 54
        š
                               You both roll your dice....
                               The computer rolled a 5 and a 2
        ===
                                You rolled a 6 and a 6
                               You WIN!
                               Play again? (y/n) y
                               You: $150, Computer: $46
                               What is your bet?150
                               The computer bets: 7
                               You both roll your dice....
                                The computer rolled a 2 and a 3
                                You rolled a 3 and a 1
. Structure
                               You LOST!
                                You lost all your money.
                                You left with $0
                                Process finished with exit code 0
```

