Exercise6.java   Exercise5.java   Exercise4.java

```java
public static void main(String[] args) {

    Scanner userInput = new Scanner(System.in);
    System.out.println("Enter your age");

    int age = userInput.nextInt();
    if (age>0 && age<18) {
        System.out.println("underage");
    }else if (age>=18 && age<65){
        System.out.println("adult");
    }else if (age>=65){
        System.out.println("senior");
    }else {
        System.out.println("the value is wrong");
    }

    switch (age){
        case 1:
            System.out.println("the number is one");
            break;
        case 2:
            System.out.println("the number is two");
            break;
        case 3:
            System.out.println("the number is three");
            break;
        case 4:
            System.out.println("the number is four");
            break;
        default:
            System.out.println("The number is out of range");
    }
}
```

Project tree:
- SDAPodstawy C:\Users\Emilka\Idea
  - .idea
  - Excercises
    - src
      - Exercise1
      - Exercise2
      - Exercise3
      - Exercise4
      - Exercise5
      - Exercise6
  - out
  - SDAPodstawy.iml
  - External Libraries
  - Scratches and Consoles

Run: Exercise6

```
"C:\Program Files\AdoptOpenJDK\jdk-11.0.10.9-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\In
Enter your age
65

senior
The number is out of range

Process finished with exit code 0
```

Git   Run   TODO   Problems   Terminal   Build   Event Log
All files are up-to-date (moments ago)   36:10 CRLF UTF-8 4 spaces emilia_pachulska

```java
import java.util.Scanner;


public class ZadSlack1 {
    public static void main(String[] args) {

        Scanner userInput = new Scanner(System.in);
        System.out.println("Enter first number:");
        int a = userInput.nextInt();
        System.out.println("Enter second number:");
        int b = userInput.nextInt();

        int sum = a+b;
        int d = a-b;
        int e = a*b;
        int f = a/b;
        int pwr = (int) Math.pow(a,b);
        System.out.println("dodawanie -> a = " +a +", b = " +b + " wynik to: " + sum);
        System.out.println("odejmowanie -> a = " +a +", b = " +b + " wynik to: " + d);
        System.out.println("mnożenie -> a = " +a +", b = " +b + " wynik to: " + e);
        System.out.println("dzielenie -> a = " +a +", b = " +b + " wynik to: " + f);
        System.out.println("podniesienie do potęgi -> a="+a + " podniesione do potęgi "+b + " daje wynik "+pwr);

    }
}
```

```java
import java.util.Scanner;

public class ZadSlack2 {
    public static void main(String[] args) {
        Scanner userInput = new Scanner(System.in);
        System.out.println("Poproszę hasło:");
        String password = userInput.next();
        System.out.println("Wpisano: "+password);
        String correctPassword = "secret";

        if (password.equals(correctPassword)){
            System.out.println("Witaj w tajemnym miejscu");

        }
    }
}
```

Run: ZadSlack2

```
Poproszę hasło:
secret
Wpisano: secret
Witaj w tajemnym miejscu

Process finished with exit code 0
```

```java
import java.util.Scanner;


public class Exercise5 {
    public static void main(String[] args) {
        Scanner userInput = new Scanner(System.in);
        System.out.println("Enter your text");
        String userText = userInput.nextLine();
        System.out.println("You have entered: " + userText);


        System.out.println("Length of text is: " + userText.length());
        System.out.println("Text is empty: " + userText.isEmpty());
        System.out.println(userText.toLowerCase());
        System.out.println(userText.toUpperCase());
        System.out.println("The text contains yout name: " + userText.toLowerCase().contains("darek"));
        System.out.println(userText.indexOf("darek"));
        System.out.println(userText.lastIndexOf(str: "darek"));
        System.out.println(userText.substring(5));
        System.out.println(userText.equals("darek"));


        String[] table= userText.split(regex: " ");
        System.out.println(table[2]);


        System.out.println(userText.replace(target: " ", replacement: "."));
    }
}
```

```java
import java.util.Scanner;

public class ZadSlack3 {
    public static void main(String[] args) {

        Scanner userInput = new Scanner(System.in);
        System.out.println("Podaj numer petli:");
        int numerPetli = userInput.nextInt();

        int i = 0;
        while (i<numerPetli)
        System.out.println("To jest komunikat w petli "+ i++);
    }
}
```

```
"C:\Program Files\AdoptOpenJDK\jdk-11.0.10.9-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Int
Podaj numer pętli:
4
To jest komunikat w pętli 0
To jest komunikat w pętli 1
To jest komunikat w pętli 2
To jest komunikat w pętli 3

Process finished with exit code 0
```

File Edit View Navigate Code Analyze Refactor Build Run Tools Git Window Help

SDAPodstawy ⟩ Excercises ⟩ src ⟩ Exercise7 ⟩ main

Exercise7.java   ZadSlack2.java

```java
public class Exercise7 {
    public static void main(String[] args) {

//      int[] tablica = new int[] {1,2,3,4,5,6,7,8,9,10,11,12};
//      System.out.println("First item in table " + tablica [0]);
//

//      for (int i=0; i< tablica.length; i++){
//          System.out.println("Item in table: "+ tablica[i]);
        for (int i=0; i<8; i++){
            System.out.println(i);
        }

        int i = 0;
        while (i<8){
            System.out.println(i);
            i++;
        }
    }
}
```

Run: Exercise7

```
"C:\Program Files\AdoptOpenJDK\jdk-11.0.10.9-hotspot\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\In
0
1
2
3
4
5
6
7
0
1
2
3
4
5
```

Git   Run   TODO   Problems   Terminal   Build   Event Log

Build completed successfully in 1 sec, 479 ms (a minute ago)   17:15   emilia_pachulska