

Kolokwium 1

Kacper Kuczawski 20195

Zadanie 1:

```
import java.io.*;
import java.util.*;
import java.text.*;
public class Zad1b{
    public static void main(String[] Args){
        double y[] = new double[6];
        Random r = new Random();
        for(int i=0; i<y.length; i++){
            y[i]=r.nextDouble(0,20);
        }
        for(int i=0; i<y.length; i++){
            System.out.print(" " + y[i] + " ");
        }
        double x[];
        x = Zad1b.modTab(y);
        for(int i=0; i<x.length; i++){
            System.out.print(" " + y[i] + " ");
        }
    }
    static double[] modTab(double[] tab){
        Scanner sc=new Scanner(System.in);
        System.out.println("\nPodaj dolny zakres przedziału: ");
        double a = sc.nextDouble();
        System.out.println("Podaj górny zakres przedziału: ");
        double b = sc.nextDouble();
        int d = tab.length;
        int l;
        l=0;
        for (int i=0; i<d; i++){
            if(tab[i]>a){
                if(tab[i]<b) l=l+1;
            }
        }
        double mTab[] = new double[d-l+1];
        int k;
        k=0;
        for (int i=0; i<d; i++){
            if(tab[i]<a){
                mTab[i]=tab[k];
                k++;
            } else if(tab[i]>b){
                mTab[i]=tab[k];
                k++;
            }
        }
        return mTab;
    }
}
```

Zadanie 2:

```
import java.io.*;
import java.util.*;
import java.text.*;
class temp{
    private double dlPodstAKK;
    private double dlPodstBKK;
    private double wysKK;
    temp trapez1(){
        static void ustawParTrapezuKK(){}
        static void powTrapezuKK(){}
        static void drukParametryKK(){}
    }
    temp trapez2(double a, double b, double h){
        static void ustawParTrapezuKK(){}
        static void powTrapezuKK(){}
        static void drukParametryKK(){}
    }
}
public class temp2{
    public static void main(String[] Args){
        t1KK = trapez1();
        t2KK = trapez2();
    }
}
```

Zadanie 3:

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
public class Zad3{
    public static void main(String args[]){
        int l;
        l = 1;

        System.out.print("\nLiczba int przed: "+ l);
        System.out.print("\n");

        int bit[] = {0, 0, 0, 0, 0, 0, 0, 0};
        int k=1;
        for(int i=0;i<8;i++) {
            if ((l&k)!=0) bit[i]=1; else bit[i]=0;
            k=k*2;
        }
        for (int i=7;i>=0;i--) System.out.print(" " + bit[i] + " ");
        System.out.print("\n");

        ustawBity1(l);
    }
    static void ustawBity1(int l){
        int n, m, b1, b2;
        n = 2;
        m = 4;

        int maska0=0;
        int maska1=~maska0;
        int maska2a=maska1<<1;
        int maska2=~maska2a;
        int maska3=maska2<<(8-(n));
        b1=l|maska3;
        int maska4=maska2<<(8-(m));
        b2=b1|maska4;

        int bit[] = {0, 0, 0, 0, 0, 0, 0, 0};
        int k=1;
        for(int i=0;i<8;i++) {
            if ((b2&k)!=0) bit[i]=1; else bit[i]=0;
            k=k*2;
        }
        for (int i=7;i>=0;i--) System.out.print(" " + bit[i] + " ");
        System.out.print("\nLiczba int po: "+ b2);
    }
}
```

Zadanie 4:

```
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
public class Zad4{
    public static void main(String args[]){
        String[][] tabS = new String[4][4];
        Zad4.fillstringcol(tabS);
        for (int i = 0; i < tabS.length; i++){
            for (int j = 0; j < tabS[0].length; j++){
                System.out.print(" " + tabS[i][j] + " ");
            }
            System.out.print("\n");
        }
    }

    static void fillstringcol(String[][] tabS){
        for (int i = 0; i < tabS.length; i++){
            for (int j = 0; j < tabS[0].length; j++){
                if(j==0){
                    tabS[i][j] = "E1 +nrK";
                } else{
                    tabS[i][j] = "NULL";
                }
            }
        }
    }
}
```