O'ZBEKISTON RESPUBLIKASI RAQAMLI TEXNOLOGIYALAR VAZIRLIGI MUHAMMAD AL-XORAZMIY NOMIDAGI TOSHKENT AXBOROT TEXNOLOGIYALARI UNIVERSITETI

Kompyuter injiniringi fakulteti Sun'iy intellekt kafedrasi

Signallar va tizimlar fanidan

1-TOPSHIRIQ

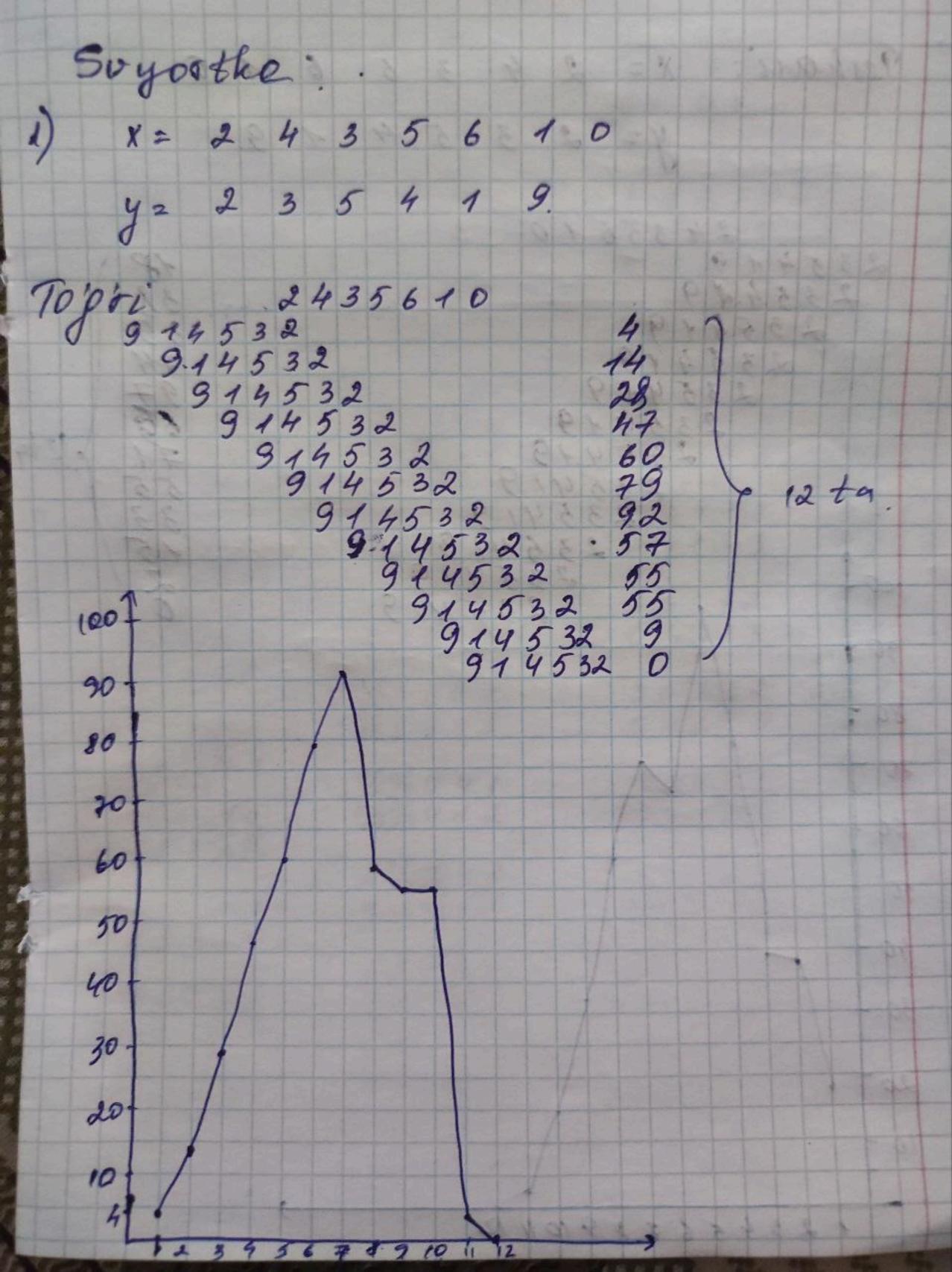
Mavzu: 1-3 amaliy mashgʻulotlar yuzasidan svyortka va korrelyatsiya jarayonlarini oʻrganish

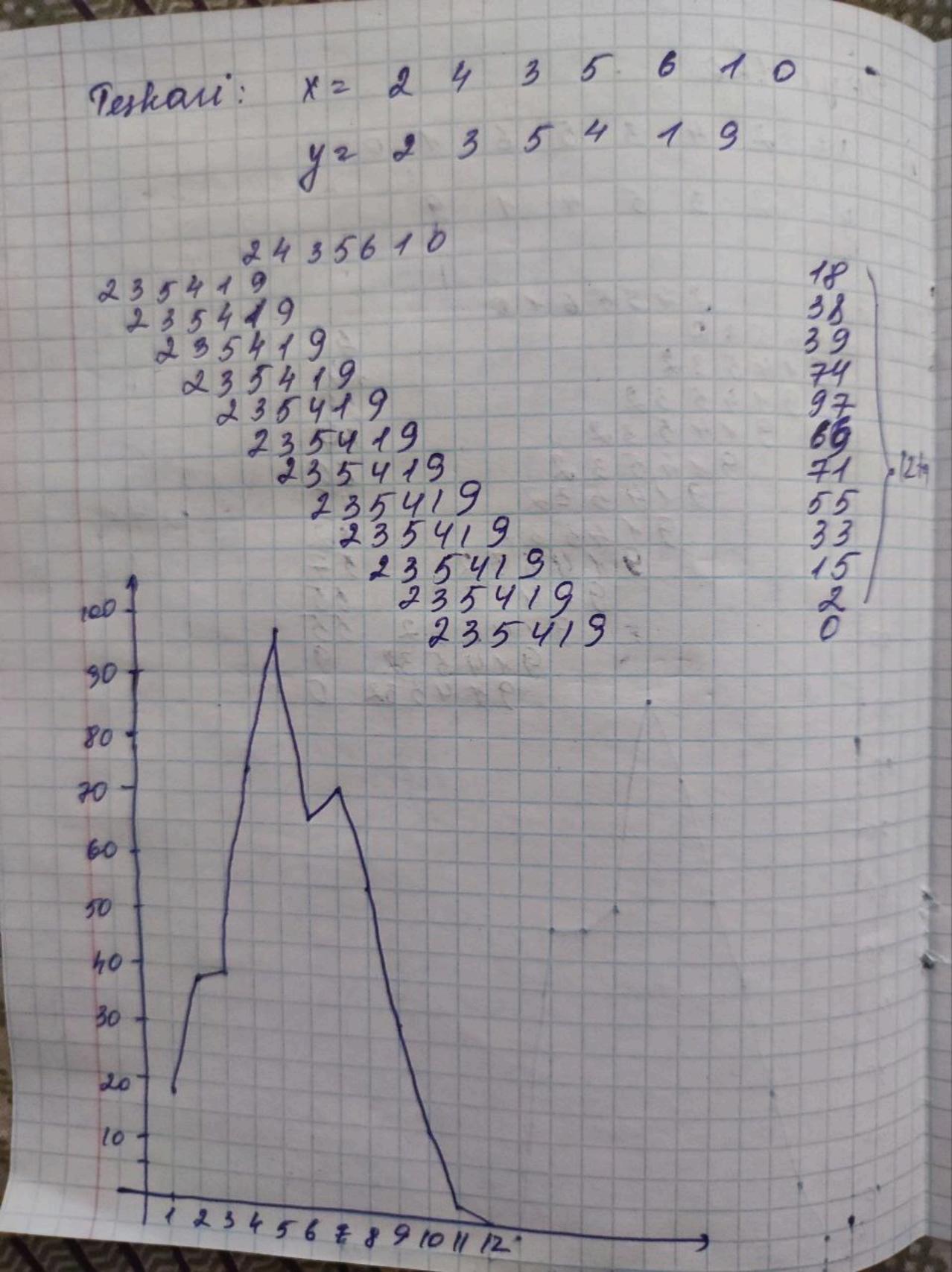
Bajardi: 451-21 guruh talabasi

Bahodirov Samandar

Tekshirdi: Umidjon Xasanov

Baho:____





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102-X YOZ-Y Yoz-Y 475 1,42 21,8 2,01 5 11,08 -3,23 -4,58 22,006 1,23-1,58 2,5 19 1,45 -0,58 0,34 13 3,75 5,42 29,34 7 -4,25 11,42 130,34 28,4 11-5,25 7,42 55,006 29 5,40-10,50 32,14 1 157,34 0,00 -12,58 0,45 0,173 2,23 0,42 7/12 8 4 10 41,12 0,35 6,22 0,10 12 10 21-2,25 -258 12/12 5,42 +13+11+8+6+12+15+4+8+14 Kort 12 9,75

Yort - 17+23+20+19+13+4+11+29+31+18+12+21 = 221 = 18,42 7: -0,195 x5-96 x 3+1 22:57 ya(ded) = la d, 2 72(2, 4) = +12 y4 (2,6) la 2,8

Cr 3,2 0,65 J1 {3,2)= 13,2 0,6 y8 (3,4)= 0,6 3, 89: (3,6) 53,6 br 3,8 = 0,20 3,2) 0,63 4) 54 la 4, 2 y12 - (4,2) = ler 4,4 713 (4,4)= 4 714 (4,6)

$$y_{16}(5) = \frac{e_{1} \cdot s}{\sqrt{3}} = 0.71$$
 $x_{1}(2) = 2^{5} - 0.6 \cdot 2^{3} + 1 = 28.2$
 $x_{2}(2,2) = 2.2^{5} - 0.6 \cdot 2.2^{3} + 1 = 42.3$
 $x_{3}(2,2) = 2.4^{5} - 0.6 \cdot 2.4^{3} + 1 = 42.3$
 $x_{4}(2.6) = 2.6^{5} + 0.6 \cdot 2.6^{3} + 1 = 109.2$
 $x_{5}(2.8) = 2.8^{5} - 0.6 \cdot 2.8^{3} + 1 = 109.2$
 $x_{6}(3) = 3^{5} - 0.6 \cdot 3^{3} + 1 = 222.8$
 $x_{7}(3.2) = 3.2^{5} - 0.6 \cdot 3.2^{4} + 1 = 316.8$
 $x_{8}(3.2) = 3.2^{5} - 0.6 \cdot 3.2^{4} + 1 = 93.2$
 $x_{10}(3.8) = 3.6^{5} - 0.6 \cdot 3.6^{3} + 1 = 57.6$
 $x_{10}(3.8) = 3.6^{5} - 0.6 \cdot 3.8^{3} + 1 = 57.6$
 $x_{10}(4) = 4^{5} - 0.6 \cdot 4^{3} + 1 = 98.6$

Xu(4,2) = 4,25-0,6.4,23+1=1263 X13(4,4) = 4,45-0,6.4,4 3e1 2 1589 X13 (4,6) = 4,6 -0,6.4,6 +1 = 2002 X15 (4,8) = 4,8 - 0,6. 4,8 + 1 = 248 X6 (5) = 5 - 0,6 · 5 3 + 1 = 3051

	No	X	Y	Xo-X	Yo-Y	(x-Ko)	80 M
	L	0,49	28,2	0,2	853		7 27609 882,1
	2	0.53	46.1	0,16	836	0,0256	698896 0,69
	3	0,56	72,3	0,13	810	0,0169	656100
	Y	0.59	109,2	011.	773	0,01	592509
	8	0,61	159,9	0,03	423	0,0064	522729
	6	0,63	224,8	0,06		0,0036	Marie Marie Committee of the last of the l
1	7	0,65	316,8	0,04	566		320356
	2	0,66	431,7	0,03	451	3-34	203401
	9	0,67	577,6	0,02		0,2.04	
	(0	0,7	760,7	-0,01	122	0,1.10	
	99	8,65	986,6		- 104		10816
	(2	0,7	1263,4	-0,01	-382	0,1.10	146162
1	13	0,2	15 99	-0,02	-652	0,2.10	425104
	19	0,71	2002	-0,02	-1120		4 1254400
	18	0,71	2482	-0,02	-16:00	0,4.10	4 266.104
	16	971	3051	-0,02	-2 123	0,4.10	4 4 748 041
			0.49	+ 0,53	+ 0.56	+ 0,59	+ 0,61+0,63
	Cor	7	+ 0 6	540	664	0,674	0,740,69
	1	4 0,4	7 +0,3	1+0,4	1+97	1 +0;	0,740,69

```
package uz.pdp.lesson7;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Scanner;
public class Main {
  public static void main(String[] args) throws IOException {
    Scanner scanner=new Scanner(System.in);
    System.out.println(" signallarning elementlari sonini kiriting");
    int a=scanner.nextInt();
    ArrayList<Integer> list=new ArrayList<>(a);
    for (int i = 0; i < a; i++) {
      System.out.println(i+"- elementni kiriting");
      list.add(scanner.nextInt());
    System.out.println(" ikkinchiu signal elementlarini kiriting");
    ArrayList<Integer> list1=new ArrayList<>(a);
    for (int i = 0; i < a; i++) {
      System.out.println(i+" - elementni kiriting");
      list1.add(scanner.nextInt());
    float summa=0:
     ArrayList<Float>list3=new ArrayList<>(a);
    for (int i = 0; i < a; i++){
      summa+=list.get(i);
    System.out.println("1-signal o'rtacha qiymati "+summa/a);
    for (int i = 0; i < a; i++) {
      list3.add((float) ((summa/a)-list.get(i)));
      System.out.println(list3.get(i));
```

```
list3.add((float) ((summa/a)-list.get(i)));
     System.out.println(list3.get(i));
  float summa1=0;
  for (int i = 0; i < a; i++){
     summa1+=list1.get(i);
  System.out.println("2-signal o'rtacha qiymati "+summa1 /a);
  ArrayList<Float>list4=new ArrayList<>(a);
     for (int i = 0; i < a; i++) {
   list4.add((float) ((summa1/a)-list1.get(i)));
  System.out.println(list3.get(i));
  System.out.println("2-signal o'rtacha qiymatin "+summa1/a);
  for (int i = 0; i < a; i++) {
   System.out.println("1-signal o'srtachasining kvadratlari=>
-Math.pow(summa/a-list.get(i),2));
  for (int i = 0; i < a; i++) {
     System.out.println("2-signal o'srtachasining kvadratlari=>
-Math.pow(summa1/a-list1.get(i),2));
  float summa2=0;
  for (int i = 0; i < a; i++) {
     summa2+=list3.get(i)*list4.get(i);
float summa3=0:
  for (int i = 0; i < a; i++) {
     summa3+=Math.pow(list3.get(i),2)+Math.pow(list4.get(i),2);
  System.out.println("yakuniy natijas=> "+summa2/summa3);
```

