	Acm 40660 Assignment -1
	Stud Num: 24209758
	Name: - tsha m. Baraaankas
Q1) *	we have to calculate values of & 18
	For the Following data points:
The second secon	(1,2)(2,4)(3,3)(4,5) on paper
\rightarrow	given: 501 - 08 X4
	data points: (1,2)(2,4)(3,3)(4,5)
	0.41-021
	linear regression: 2:
	$\alpha = n \Sigma(xiyi) - \Sigma xi \Sigma yi$
	n E(x;2) - (Exi)2
	n= number of data points.
	21 & yi = co-ordinates of data points
	: Edulation F:
2	For B (interceptions of lines
	β = [£yi-α (ξ 21) - Al = 8
	n +
	In this example n = 4 and data points
	are (1, 2)(2,4)(3,3)(4,5)
•	we have to calculate
	and the second s
	20; 4: 21:4: 21:2
	1 2 1
	•
	2 4 8 4 3 3 9 2 3 9
	4 5 20 16
	T
	Σχί= 10 εγί=14 εμίγί ερε, ² = 36
	Y=0.824 W1.5
	39
VALUE OF THE PARTY	

	THE REAL PROPERTY OF THE PROPE
	Acmtoeco Assignment -1.
	etud vum: 2420g 75 g.
	001001-00-00100100000000000000000000000
	· all and
	x 204 × 39 = 10 × 14 =
	4×30 - 10-
	data points: (1,23(2,4)(3,3)(4)
	156 - 140
	120 ÷ Loronoises resail
	it= 163 - (it ik) 3 0 = x
	· · · · · · · · · · · · · · · · · · ·
	D= Dumber of data posion = 0
2	ai fy; = co-ordinates of data point
	calculating B:
	we will use calculated a to find B
	B = 14-0183x70-143 = 8
	4 (1
ztnio	In this example n = 4 and data p
	076 (1,2)(2,4)(3,3)87,55
	1 se have to cakulate 4
	ik = 6 irik ir
	1 = 6 171K 17 190
	4
	B=1.5
	20 16
	line Equation will be:
36	DI LINE
	Y=0.82e +1.5
+	

	e] calculate the first term of determinant formula given in (b) on paper
	Formula given in (b) on paper b) point is :
	p pointie given in (b) on name
	write Et = Ex = Paper ()
	as Eunction to the
	any 2 x 2
—	Determinant are 3200
	Determinant of 3x3 matrix
	A= [a b de]
	A= a b de la saugmant (s) 8+ - de e p. so the determinant is
	e e so the determinant
	eg -h i determinant is
	det(A) = 0(e: C) + det (A) + det
	calculation = b(di-fq)+c (dh-eq)
	calculation for first term:
ε-=	breaking down it
	Omultiply & marine
	LOW DIATE
	2 multiply f& h
	- COMPLIA Ch
	3 substract th from el
	- compare ei - fh
	(4) multiply by a
	- compute a (ei- Fh)
	$ex = A = \begin{bmatrix} \pm & 2 & 3 \end{bmatrix}$
	4 5 6
	7 8 9]
	$a = 1 \qquad b = 2 \qquad c = 3$
	d=4 e=5 f=6
	9 = 7 h = 8 i = 9

	Will co First term leist
Japau	Now, we will calculate First term leis
	O calculate (ei) mavie plummos
	ei = 5 x 9 = 45 - : 21 + 11 ioq d
Lonimos	write a Function to that calculated det
	2 calculate through EXE PAD 10
	rivetom FK = 6x8 JFIDAISITEDA
	3 compute ei - Eh d D - A
ai the	nimpostab ant of - Fh = 45 - 48
	1 1- 23
	@ multiply by a:
16-61	det(A) = Q(ei-Fh) - b(di-Fq)+c(
	a(ei-Fh) = 1 × 70 3 610161
	= -3/17-19)0
	breaking down it
	· · The first term a ceitfholis = -3.
	마는 하는 마는 항상이 가는 이 나는 이 바로 전문이를 보고 있었다. 전문이 있습니다고 있는데, 보고 있는데, 보고 있는데, 보고 있다면 하는데, 보고 있는데,
	This is now we calculated first term.
	d P A plaitinu (e)
	3) Substant 6 h Expo Cl
	- compare ei- Ph
	(a) whitibly phy
	- compute a (ei - Ph)
	ex = A = 1 2 3
	4 5 6
	1 2 8 4 1 E
	Q = 1
	det e = E = E = E
	E=1 8=1 += E

Assignment 1

Scientific Programming

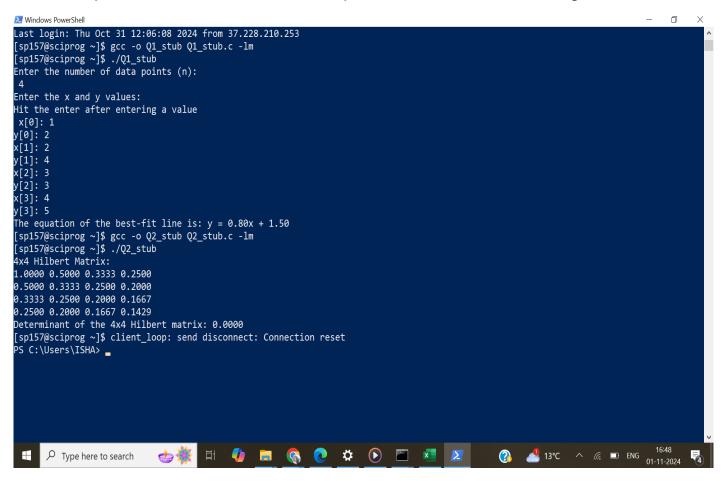
Isha Borgaonkar

Student Number: 24209758

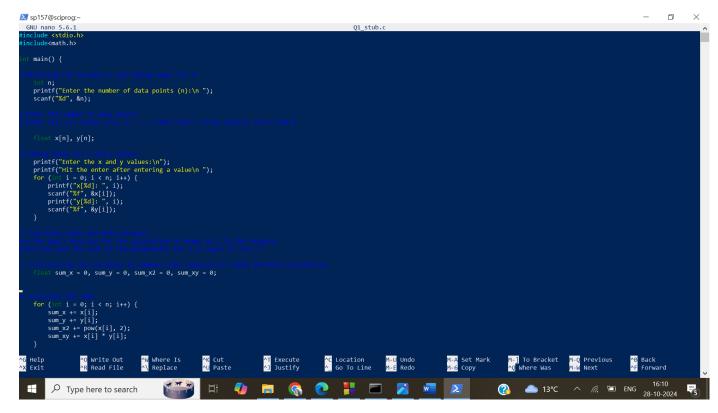
Here I coded, compiled and run both programs in C on Sciprog. I am attaching output of both programs, screenshot of code which is done on Sciprog as well as code of .c File.

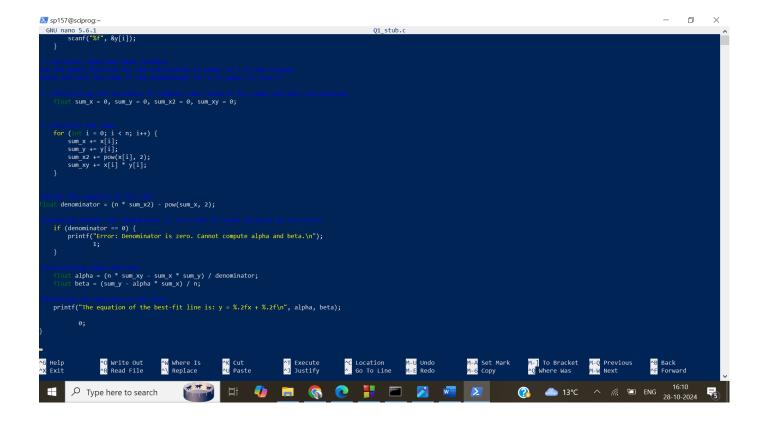
Output of Program Q1.stub and Q2.stub

The input for Q1.stub file is the data points which are in the Assignment1 file.



Q1.Stub.c File sciprog





Q1.Stub.c File on sciprog

