			1
	Pseudocode Program 1		
	- Initialize dimensions (first name, last name) - 1		
	ap into function to create matrices !	7	
	create empty matrix		
c			1
Creating	for index in range of rows, append the blank matrix		function
	· For index in range of colvins, appeal current iteration of blank	natrix	
\	set start value as the increment		
	For index in range of rows,		
Stelugos	/		
waters	for index in range of wolumns,		
	iterate through columns		1
	to say the say that all the says and		1
,	Co into Function to write matrices to Files:		1
)			Function
	has parameters of a file and matrix		
	iterate through rows with for lasp,		
	write contents to file		
	(2)	, ,	15.00
	Call matrix Function, give Dimensions, start, and increment	Run 6	
	Print matrix made above I		infferent
•	call the File write Function, giving the above matrix and file that	) Paramer differ	
	is desired	motric	
		mode	

	Pseudocode Program 2	
	Read in all six matrices made in previous program	
	Use same write File as in Program 1 code	
	The same of the sa	
T.	Make function to add matrices: Pass in 2 matrices	20 mgs )
	and the second s	
	For index in range of the length of months I	
	for index in range of the leighth of material 2	
	For k in range of dimensions	
	blank matrix index = matrix 1 index + matrix 2 index	
1	Run this code for all possible combinations of 2 matrices that	
and -	are obje to be added together	
	The same of the sa	(C)
	- And the street of the street	4
Secretary of the		
	The state of the s	J
Market and a second	The state of the s	
Sale Say	The second secon	
300		

Pseudocode Program 4	
Marke function to calculate dot product without Humpy:	
return sum of (x * x) + (y * y)	
Make write File Firetion	
(Same as the ones before)	
write in vectors, calculate dot product using Function about	ve,
WATE IN VECTORS) CANCILLATE SOF PROSECT OSTING	
<b>&gt;</b>	
write results to separate Files using write file func	Flan,
Some After the State of the Sta	
Import graphing libraries	la company de
(dilfelytem plainsy)	
	(20)
Graph vectors, save image to a File	
Oraph vector, save mage to active	
	1 1 1 1
The state of the s	Type
Control of the contro	
to the state of th	

3	Pseudocode Program 5
	Make Function to subtract vectors
	For index in range of length of vector I and vector 2
	Gresult egals vector I index - yector 2 index
	A CONTRACTOR OF THE STATE OF TH
	Instinuize vectors to subtract
	13 call function to subtract
	North a room with the
	Make Function to add vectors
	For index in range of length of vector 1 and vector 2
	15 result equals vector I index + vector 2 index
	2000 1.000 1.000
3	Initialize vectors to add
. •	Gall Function on said vectors
	Import graphing libraries
	(matplot/sol)
	Graph resultant vectors from subtraction
-104	and addition,
	Save image to a File.
	2 Thron 2 is a determine with printed

Pseudocode Program 6	
	•
initialize blank 6x6 mateix	
Define Function to transpose the SIX original matrices	-
Secretary of the second	
rows equal leight of matrix	-
Columns equal length of matrix index 0	
Tablettick at in that I have the	
Initialize Work motion x	-
For index in range of columns	•
L) set to row	
for inject in range of rows	-
Gappend montrix index	-
append row with blank matrix	-
return blank matrix	-
The second secon	-
Define write File function	6
9 Same one that has been used every time	6
-) salve one trait has been our every time	
	-
read file; will be the some	-
call transpose function on matrix process for all six	-
Print new matrix matrices	
write new motifies to a new File	
	1