1. Write a program that uses an array to store the square of numbers, and displays the content of the array.
2. Using an array, write a program that generates the first Fibonacci terms and prints them.

A Fibonacci series is defined as follows;

fib[0]=0

fib[1]=1

fib[i]=fib[i-1]+fib[i-2] for i>=2

1. Write a program which prompts a user for the number of students, and saves it in an int variable. Prompt the user for the marks of each student and saves in an array. The program must check the mark is between 0 and 100. Finally the program displays the average, minimum and maximum mark.
2. Write a program that prompts and inputs positive numbers; store them in an array and calls a function display to output the array elements on the screen.
3. A certain class has 10 students. Each student takes three units, Programming, Financial Accounting, PC maintenance. Their lecturer has requested you to develop a simple program for storing the marks scored by each student for the three units. The program should be able to display a detailed report on the class performance including the average per unit, per student and the average overall performance for the class.

*Required:*

Write a program that will fulfill the above requirement. You may make any other necessary modification to make it more users friendly.

1. Write a program that uses an array to compute and display a multiplication table like the one shown below;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| \* | 1 | 2 | 3 | 4 |
| 1 | 1 | 2 | 3 | 4 |
| 2 | 2 | 4 | 6 | 8 |
| 3 | 3 | 6 | 9 | 12 |
| 4 | 4 | 8 | 12 | 16 |

1. Writes a program that displays the pattern shown below;

|  |  |  |  |
| --- | --- | --- | --- |
| \* | \* | \* | \* |
| 1 | \* | \* | \* |
| 2 | 2 | \* | \* |
| 3 | 3 | 3 | \* |
| 4 | 4 | 4 | 3 |