CSE 115 Final Exam

Time 90 Minutes

1. Answer queries related to array please. [5 X4=20]

1. Declare a 1dimensional integer array of size 10 named A.
2. place the value of -1 in first position of array.
3. Place the value of 100 in the last position of array.
4. Using a loop put the value from 1, 2, 3, … from the second position to 9th position of the array.
5. Add all the numbers of the array and print them.

2. Answer the queries about two-dimensional array please. [10+5+10]

1. Declare the 2D array and initialize it like the picture, use loop given below and name it Z.
2. Print all the elements of the array.
3. If you are at Z[1][1] position, write code to move up, down, left, right position when user enters 1, 2, 3, 4 to represent them (up=1, down=2 etc.) and place the value -1 there.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 100 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 100 |
| 100 | 200 | 300 | 300 | 300 | 300 | 300 | 300 | 200 | 100 |
| 100 | 200 | 300 | 400 | 400 | 400 | 400 | 300 | 200 | 100 |
| 100 | 200 | 300 | 300 | 300 | 300 | 300 | 300 | 200 | 100 |
| 100 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 100 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

3. Answer the following questions about a three-dimensional array [5+10+10]

1. Declare an array for a calendar that shows 12 months.
2. Initialize the month of September
3. Print the entire array using loops

4. Help your teacher who wants a software to manage a food shop. She wants to keep information about books. [5+5+10+10+10]

1. Define a structure to keep book information
2. Declare an array to keep 10 book information
3. Write code to take input from users using a loop
4. Write code to print all the information using a loop
5. [bonus] print book information on a file