**North South University - Spring 2023**

Course: CSE225L Assessment: Lab 1 / HW 1 / PS 1

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// Task-1 Codes

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| #include <iostream>  using namespace std;  int main()  {  int arraySize;  cout << "Enter size of array: ";  cin >> arraySize;  int\* nums = new int[arraySize];  cout << endl;  for(int i = 0; i < arraySize; i++){  cout << "Enter " << (i+1) << "-th elements: ";  cin >> nums[i];  }  cout << endl << "All array elements: " << endl;  for(int i = 0; i < arraySize; i++){  cout << nums[i] << " ";  }  cout << endl;  delete[] nums;  return 0;  } |
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// Task-2 Codes

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| #include <iostream>  using namespace std;  int main()  {  int row, column;  cout << "Enter row size: ";  cin >> row;  cout << "Enter column Size: ";  cin >> column;  char\* char2d = new char[row\*column];  cout << endl << "Enter all elements(" << row << ", " << column << "): " << endl;  for(int i = 0; i < row; i++){  for(int j = 0; j < column; j++){  cout << "Enter elements of (" << (i+1) << ", " << (j+1) << "): ";  cin >> \*(char2d + i \* column + j);  }  }  cout << endl << "All elements in matrix formate: " << endl;  for(int i = 0; i < row; i++){  for(int j = 0; j < column; j++){  cout << \*(char2d + i \* column + j) << " ";  }  cout << endl;  }  cout << endl;  delete[] char2d;  return 0;  } |
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| Actually I am confused about char and string. Question is little bit confusing for me. I assume that this question asking for char array. If it was a string array then just I need to replace the line  char\* char2d = new char[row\*column];  with  string\* char2d = new string[row\*column];  then we can store word. |

// Task-3 Codes

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| #include <iostream>  using namespace std;  int main()  {  int row;  cout << "Enter row size: ";  cin >> row;  int column[row];  for(int i = 0; i < row; i++){  cout << "Enter column size for row-" << (i+1) << ": ";  cin >> column[i];  }  int\*\* nums2d = new int\*[row];  for(int i = 0; i < row; i++){  nums2d[i] = new int[column[i]];  }  cout << endl << "Now enter all elements: " << endl;  for(int i = 0; i < row; i++){  for(int j = 0; j < column[i]; j++){  cout << "Enter elements of (" << (i+1) << ", " << (j+1) << "): ";  cin >> nums2d[i][j];  }  }  cout << endl << "All elements in matrix formate: " << endl;  for(int i = 0; i < row; i++){  for(int j = 0; j < column[i]; j++){  cout << nums2d[i][j] << " ";  }  cout << endl;  }  cout << endl;  delete[] nums2d;  return 0;  } |
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// Task-4 Codes

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// Task-5 Codes

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