10.Write a program that inputs number and character. It passes the input to a function that display n number of column and rows of given character.

Coding:

#include <iostream>

// Function declaration

void displayGrid(int rows, int columns, char character);

int main() {

int numRows, numColumns;

char ch;

// Input the number of rows, columns, and character from the user

std::cout << “Enter the number of rows: “;

std::cin >> numRows;

std::cout << “Enter the number of columns: “;

std::cin >> numColumns;

std::cout << “Enter a character to display: “;

std::cin >> ch;

// Validate input

if (numRows <= 0 || numColumns <= 0) {

std::cout << “Number of rows and columns must be positive integers.” << std::endl;

return 1; // Exit with error code

}

// Call the function to display the grid

displayGrid(numRows, numColumns, ch);

return 0;

}

// Function definition

void displayGrid(int rows, int columns, char character) {

for (int i = 0; i < rows; ++i) {

for (int j = 0; j < columns; ++j) {

std::cout << character << ‘ ‘;

}

std::cout << std::endl;

}

}

