Example 1: Define a method named “rectDraw” to draw a rectangle of height 4 and width 8 with asterisks “\*”; call the rectDraw method in the main method

1. Source code:

Graphical user interface, text, application

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 2: Define a method rectDraw to draw a rectangle of (width \* height) with asterisks; in the main method, ask the user to input the values of these two variables then call the method to draw the rectangle

1. Source code:

Text

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 3: Ask the user to input a positive integer “n”. The program should then print the sum of numbers from 1 to “n” while excluding multiples of 4 and 7 (i.e. 4, 8, 7, 14, etc.)

1. Source code:

Graphical user interface, text

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 4: Define a method “recDraw” that takes double input values of width and length of a rectangle and calculate/output the area (w \* l). Have the main method be where the user inputs the two double values and then call to the recDraw method

1. Source code:

Graphical user interface, text, application

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated’

Example 5: Define a method to take the maximum of three double numbers input by the user. In the main method, ask the user to input the values and then call the defined method to print the result

1. Source code:

Graphical user interface, text

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 6: In the main method, ask user to input 4 integers (using different variables) then print out the results of the following methods; define method totalCalculation to take the sum of four integers input by the user; define method positiveAverage to take the average of all the POSITIVE numbers entered

1. Source code:

Text, application

Description automatically generated

1. Output:

Text

Description automatically generated

Example 7: Define method twoPowerSum to take a positive integer n and take the sum of the sequence 2^n power (2^1+2^2+2^3…..2^n). Have the user enter the integer in the main method and print out the result by calling to the method.

1. Source code:

Text

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 8: Define a method intPower to take an integer x and raise it to the power of an integer y. In the main method, have the user input two values and then print out the result by calling to the above method

1. Source code:

Graphical user interface, text, application

Description automatically generated

1. Output:

Graphical user interface, text, application, email

Description automatically generated

Example 9: Define two arrays with an array size of 6. Have the user input the integers for the array elements and output the integers of the first array greater than the corresponding index in the second array

1. Source code:

Graphical user interface, text, application

Description automatically generated

1. Output:

Text, table

Description automatically generated

Example 10: create a double array with a size of 8 and have the user input each element in the array. Calculate and output the maximum and minimum double values as well as their difference.

1. Source code:

Text

Description automatically generated

1. Output:

Text

Description automatically generated

Example 11: Create an integer array with a size of 5. Have the user input each element and take the average of all even numbers in the array

1. Source code:

Text

Description automatically generated

1. Output:

Graphical user interface, text, application

Description automatically generated

Example 12: Create an integer array with a size of 5. Ask the user to input each element in the array and then output the sum and average of all even numbers entered.

1. Source code:

Text

Description automatically generated

1. Output:

Text

Description automatically generated

Example 13: Define a method array getMin where it will return the minimum value of the array elements. In the main method, create an array with a size of 10 and have the user input the value of each element. Print out the result by calling the method.

1. Source code:

Text, application

Description automatically generated

1. Output:

Text

Description automatically generated

Example 14: Define a method array getTotal to return the sum of each positive array element; Define a method array of getAverage to return the average of each odd array element. In the main method, define an array of size 10 and ask the user to input each element. Output each result by calling the above methods

1. Source code:

Text

Description automatically generated

1. Output:

Text

Description automatically generated