Lab 7

Step A1: Done

Step A2: Done

Step A3: Done

Step B1:

public class Word

{

/\*\*

Tests whether a letter is a vowel

@param letter a string of length 1

@return true if letter is a vowel

\*/

public boolean isVowel(String letter)

{

if (letter.equalsIgnoreCase("a"))

return true;

else if (letter.equalsIgnoreCase("e"))

return true;

else if (letter.equalsIgnoreCase("i"))

return true;

else if (letter.equalsIgnoreCase("o"))

return true;

else if (letter.equalsIgnoreCase("u"))

return true;

else if (letter.equalsIgnoreCase("y"))

return true;

else

return false;

}

}

Step B2: DONE

Step B3:

public class Word

{

/\*\*

Tests whether a letter is a vowel

@param letter a string of length 1

@return true if letter is a vowel

\*/

public boolean isVowel(String letter)

{

return letter.equalsIgnoreCase("u")||letter.equalsIgnoreCase("y")||letter.equalsIgnoreCase("a")||letter.equalsIgnoreCase("e")||letter.equalsIgnoreCase("i")||letter.equalsIgnoreCase("o");

}

}

Step B4:

public class Word

{

/\*\*

Tests whether a letter is a vowel

@param letter a string of length 1

@return true if letter is a vowel

\*/

public boolean isVowel(String letter)

{

return letter.contains("a")||letter.contains("e")||letter.contains("i")||letter.contains("o")||letter.contains("u")||letter.contains("y")||letter.contains("A")||letter.contains("E")||letter.contains("I")||letter.contains("O")||letter.contains("U")||letter.contains("Y");

}

}

Step B5: DONE

Step C1:

public boolean fill(int row, int column)

{

// Change the Boolean expression to produce different patterns

return !(row >= 1 && column >= 1);

}

Step C2: Done

Step C3:

public boolean fill(int row, int column)

{

// Change the Boolean expression to produce different patterns

return !(row ==1||row==3||row==5||row==7||row==9 );

}

Step C4: Done

Step C5:

public boolean fill(int row, int column)

{

// Change the Boolean expression to produce different patterns

return !(row != column && row-2 != column && row-4 != column && row-6 != column && row-8 != column && row+2 != column && row+4 != column && row+6 != column && row +8 != column);

}