Part a

public class Sign

{

private String message;

private int width;

public Sign(String m, int w)

{

message = m;

width = q;

{

public int numberOfLines()

{

if(message.length() == 0)

return 0;

else if(message.length() <= width)

return 1;

else

return message.length() / width;

}

public String getLines()

{

if(message.length() == 0)

return null;

else if(message.length() <= width)

return message;

else  
 {

String newString = “”;

for(int i = 1; i < numberOfLines(); i++)

{

newString += message.substring(0, width);

message = message.substring(width);

}

return newString;

}

}

}