Lab2 –Framing with error detection

Objectives:

- Apply and simulate the “byte count” framing algorithm to input from user.
- Apply and simulate “even parity” error detection algorithm to frames.

Introduction:

In this lab you will write a program using Python or C++ “in **one file only** “that simulates two algorithms of the Data-link layer [framing with byte count and even parity error detection].

Example:

Input file:

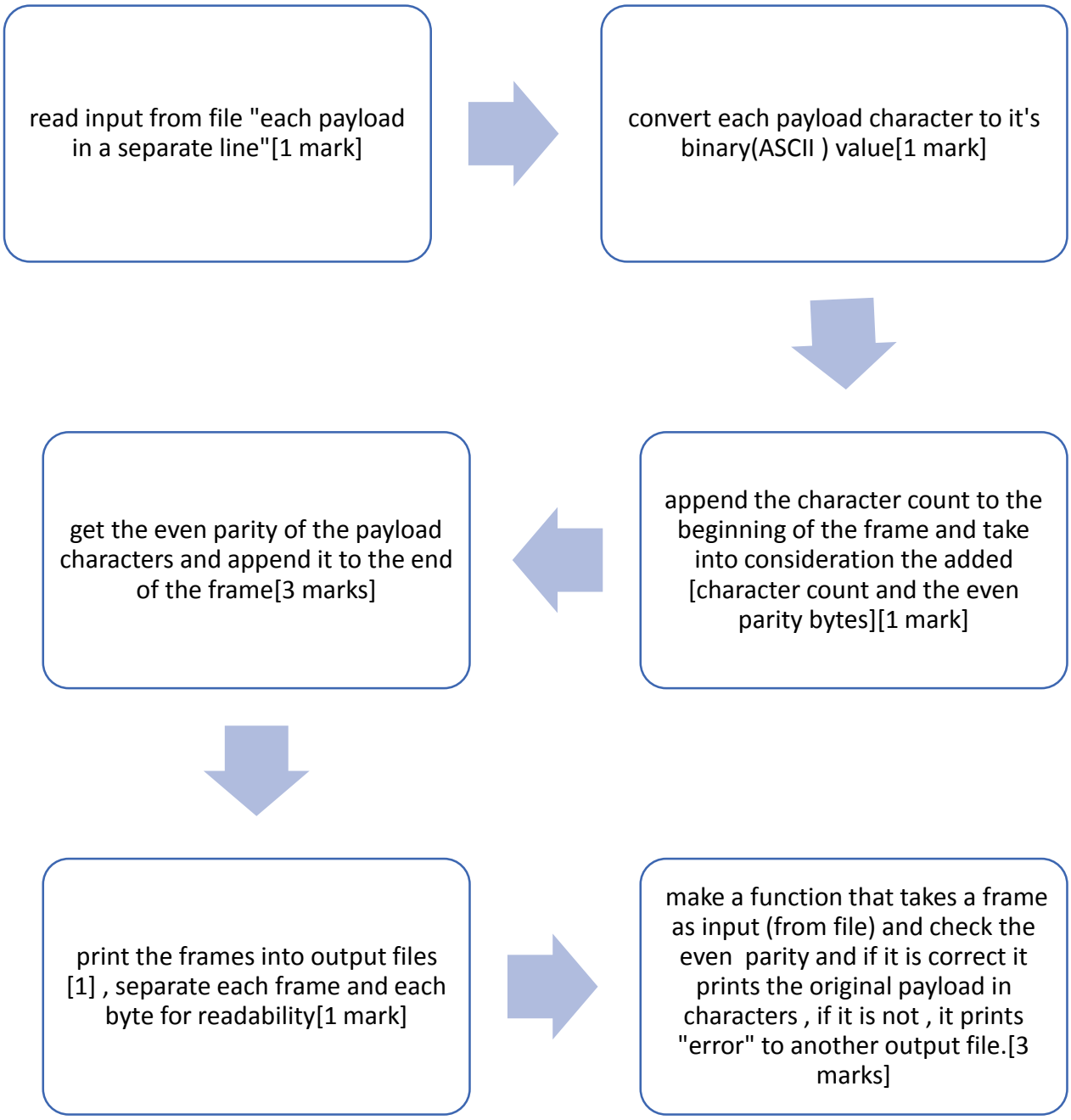
```
WORK
PLAY
EAT
```

Output file:

```
[['00110110'], ['01010111'], ['01001111'], ['01010010'], ['01001011'], ['00110111']]
[['00110110'], ['01010000'], ['01001100'], ['01000001'], ['01011001'], ['00110010']]
[['00110101'], ['01000101'], ['01000001'], ['01010100'], ['01100101']]
```

Note that the binary representation of characters is just their ASCII code
for more info about ASCII codes visit https://www.rapidtables.com/convert/number/hex-to-ascii.html

Program flow:



Delivery:

Work in pairs and Send your code file and test files in a zip folder named with your names to salmacmpeg@gmail.com by 2/12/2018 midnight with subject [semester lab 2]