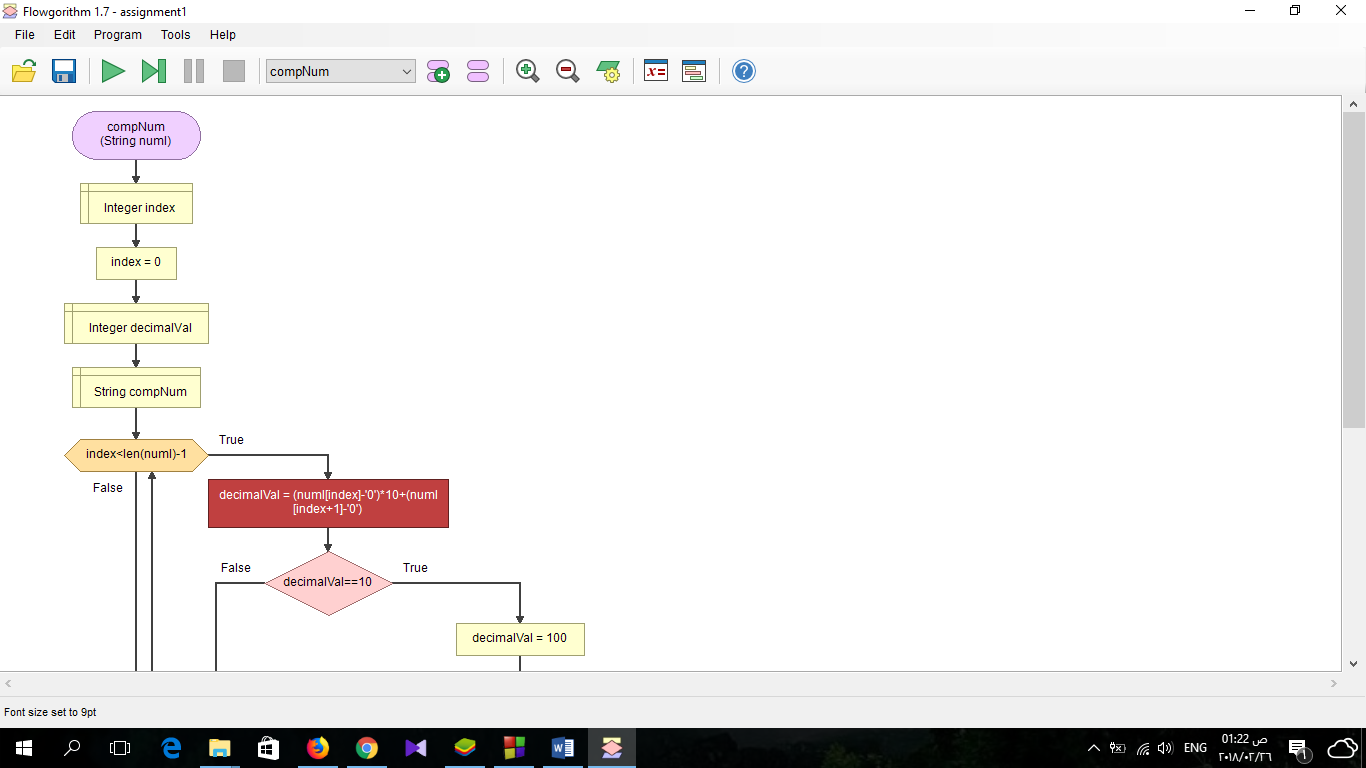
Assignment 1

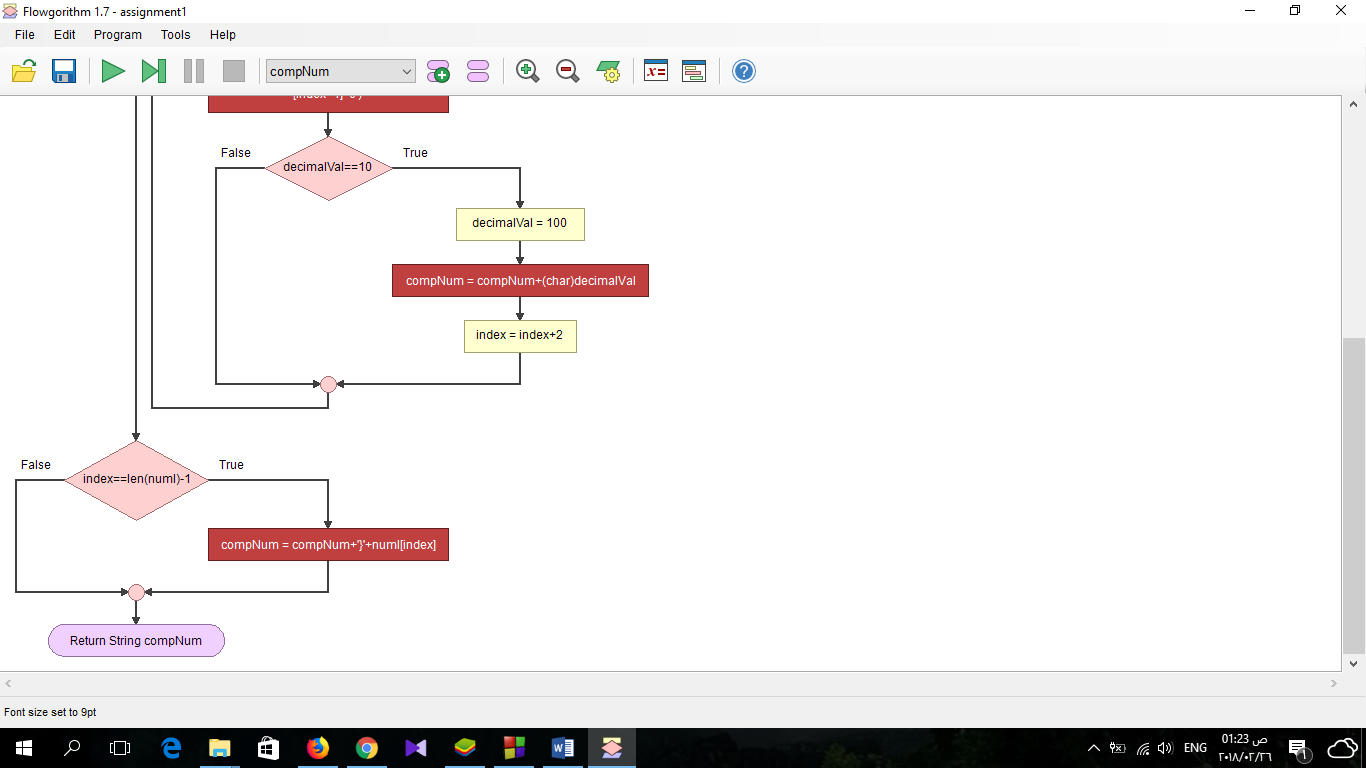
Mambers :Aliaa Samir, Fatma Elsayed, Maryan Louis

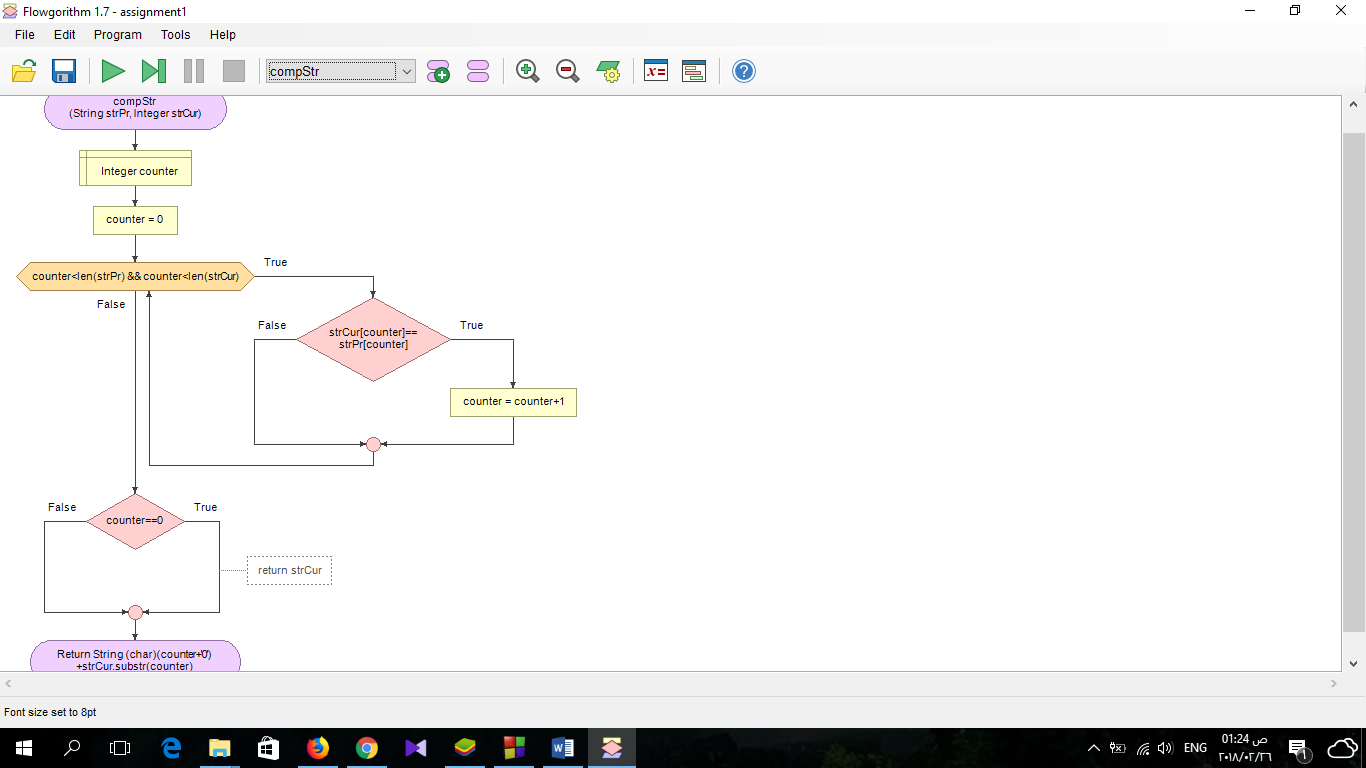
Introduction: we need to compress a phone list , this list has the name and number.

Algorithms: Front Algorithm

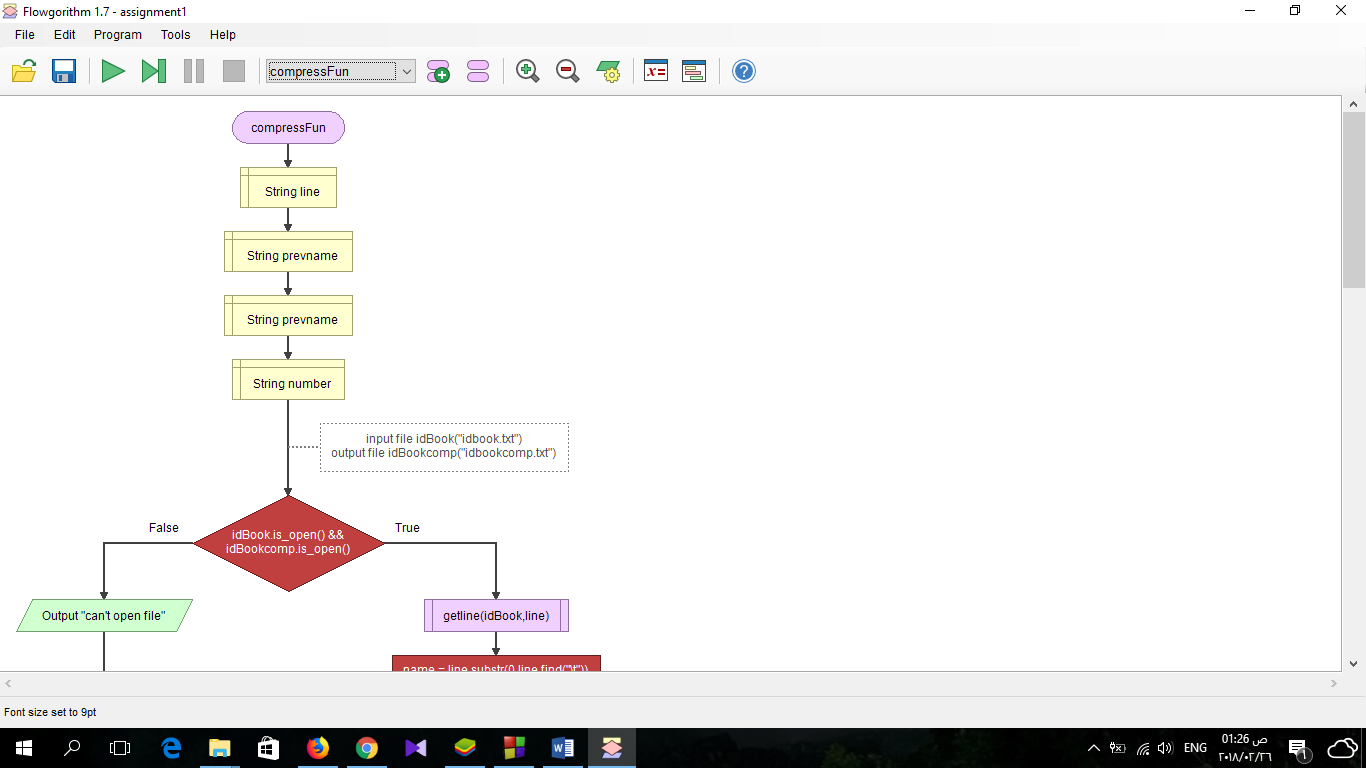
flowchart :compNum function:

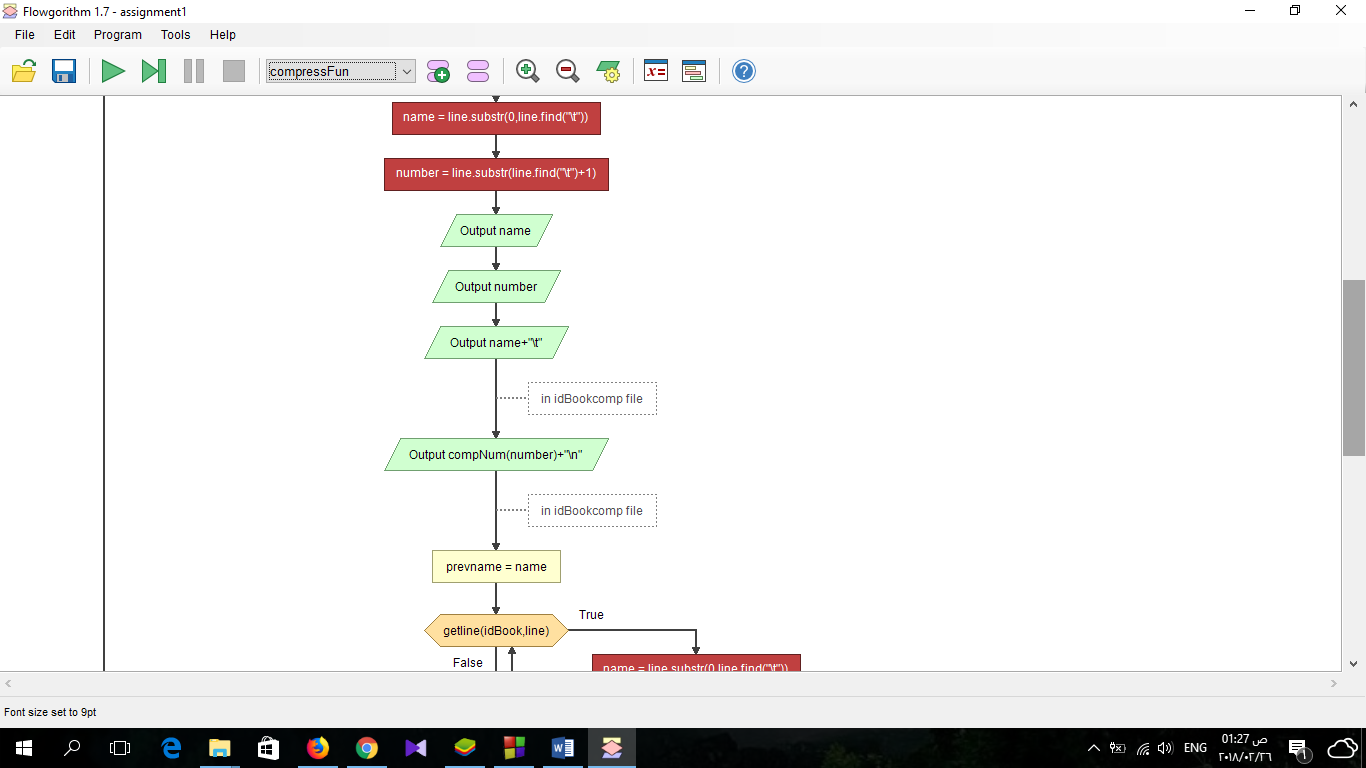


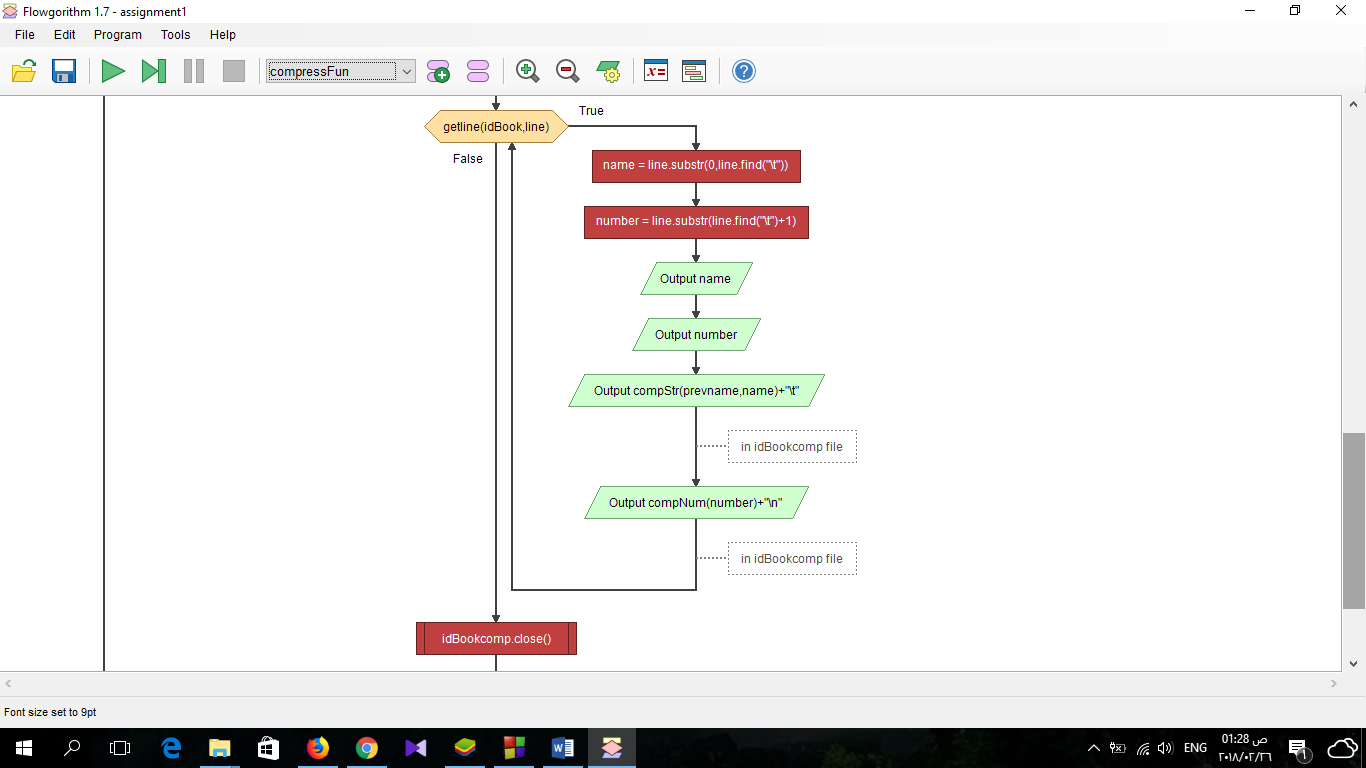


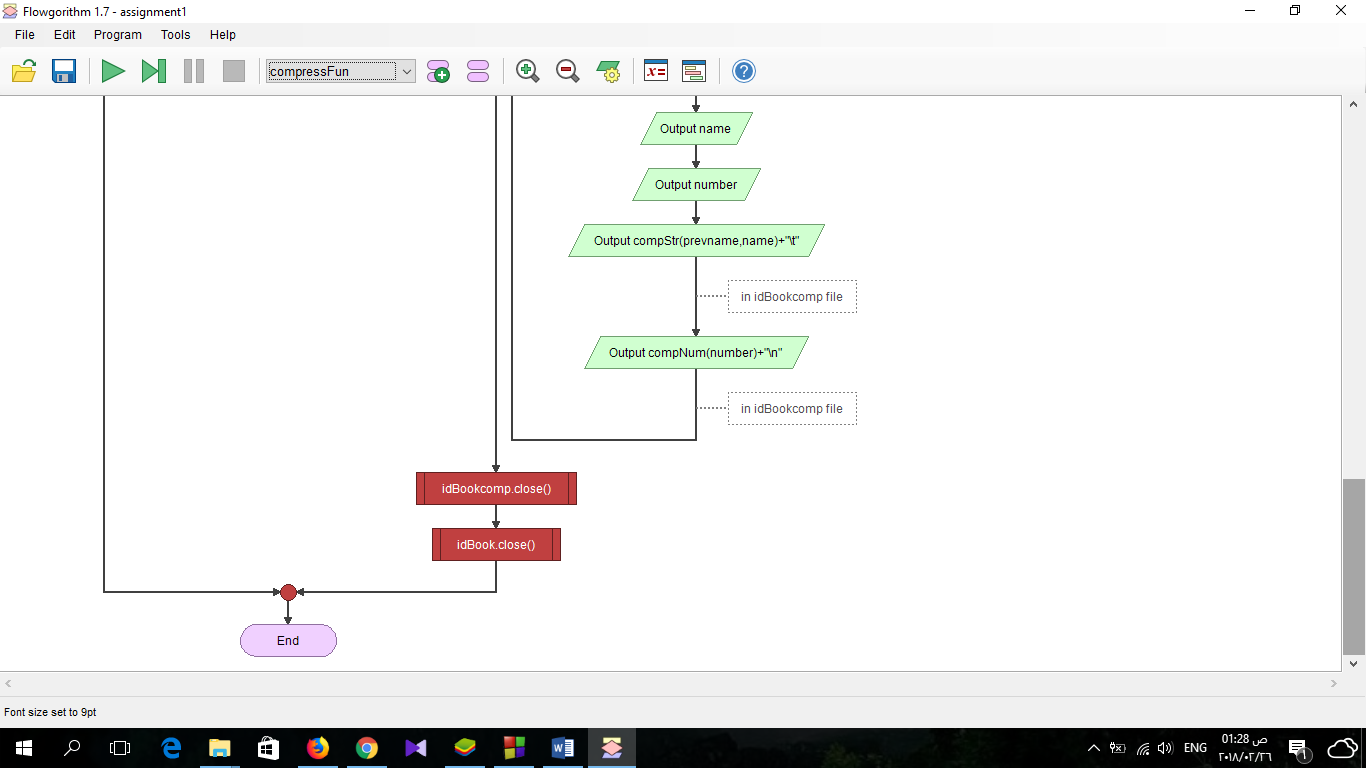


CompressFunc function:

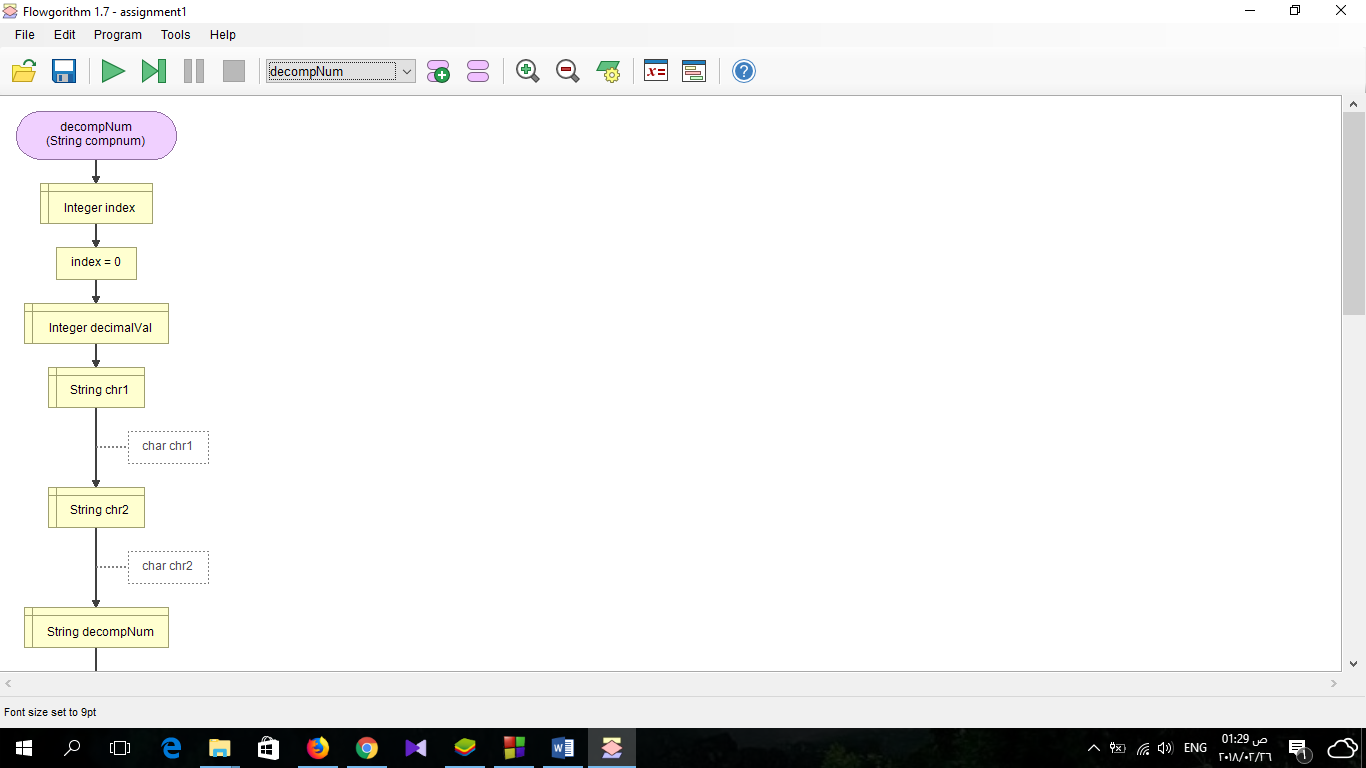


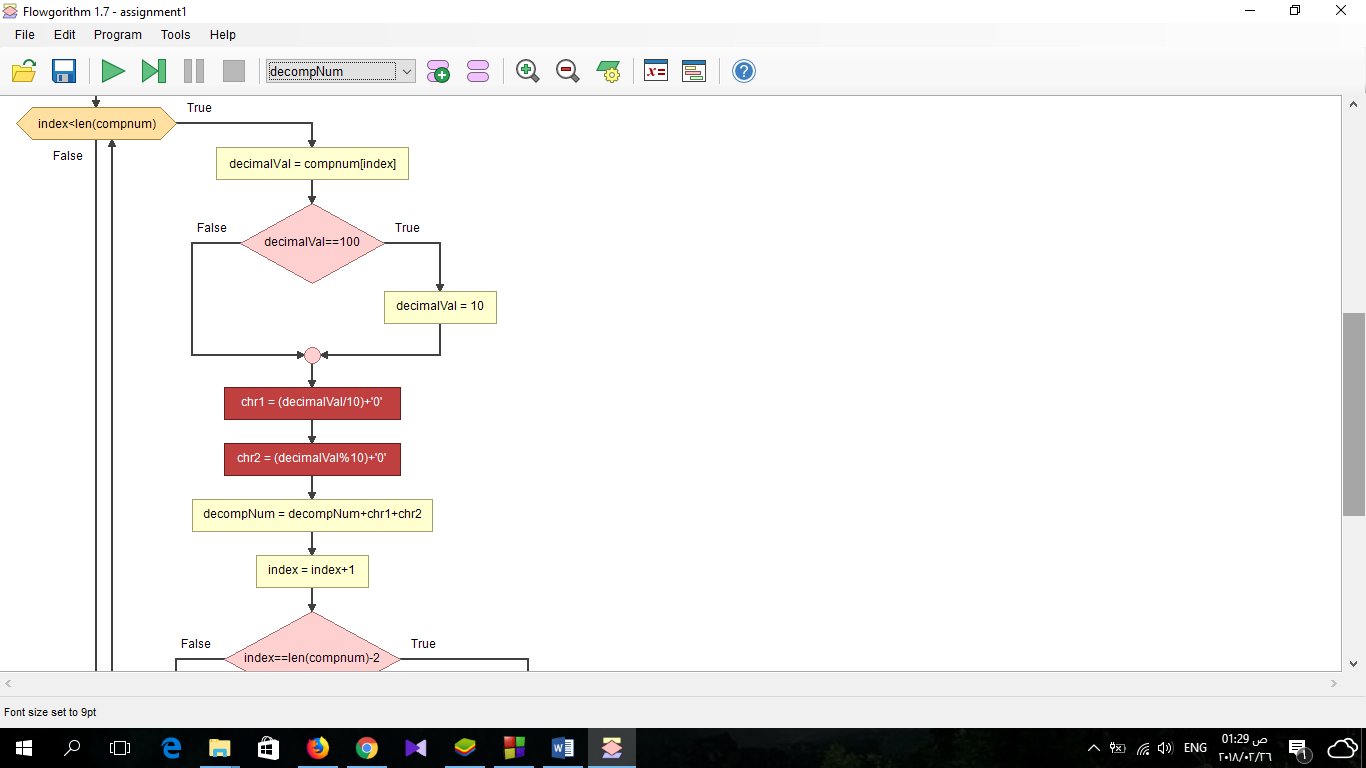


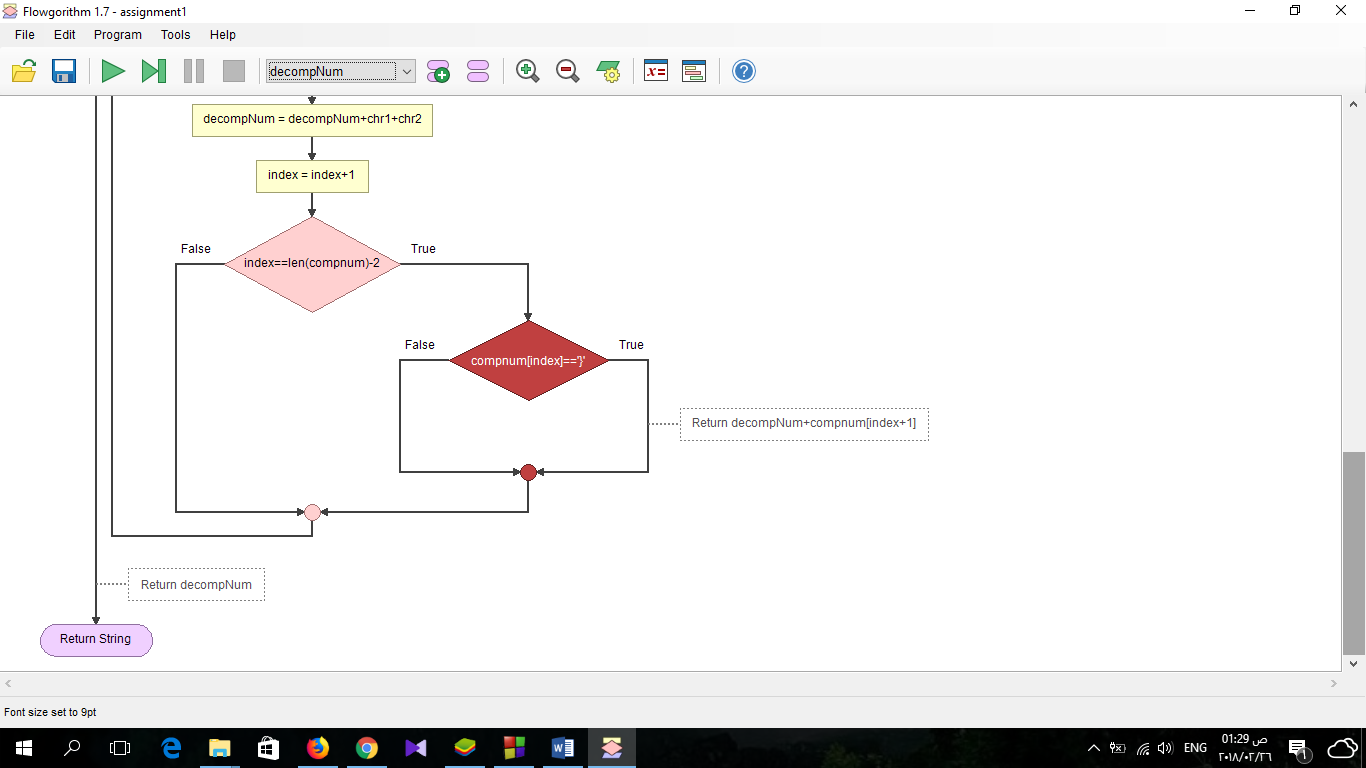




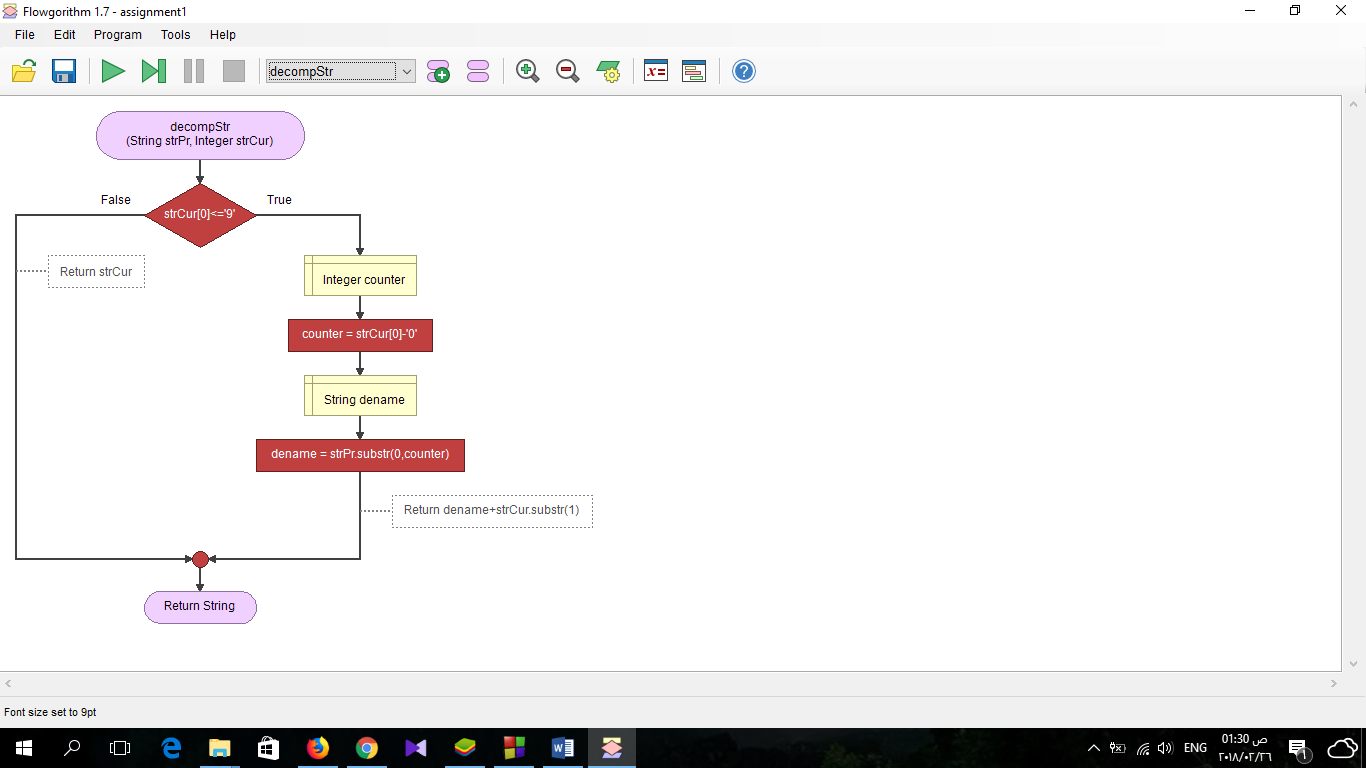
decompFunc function:



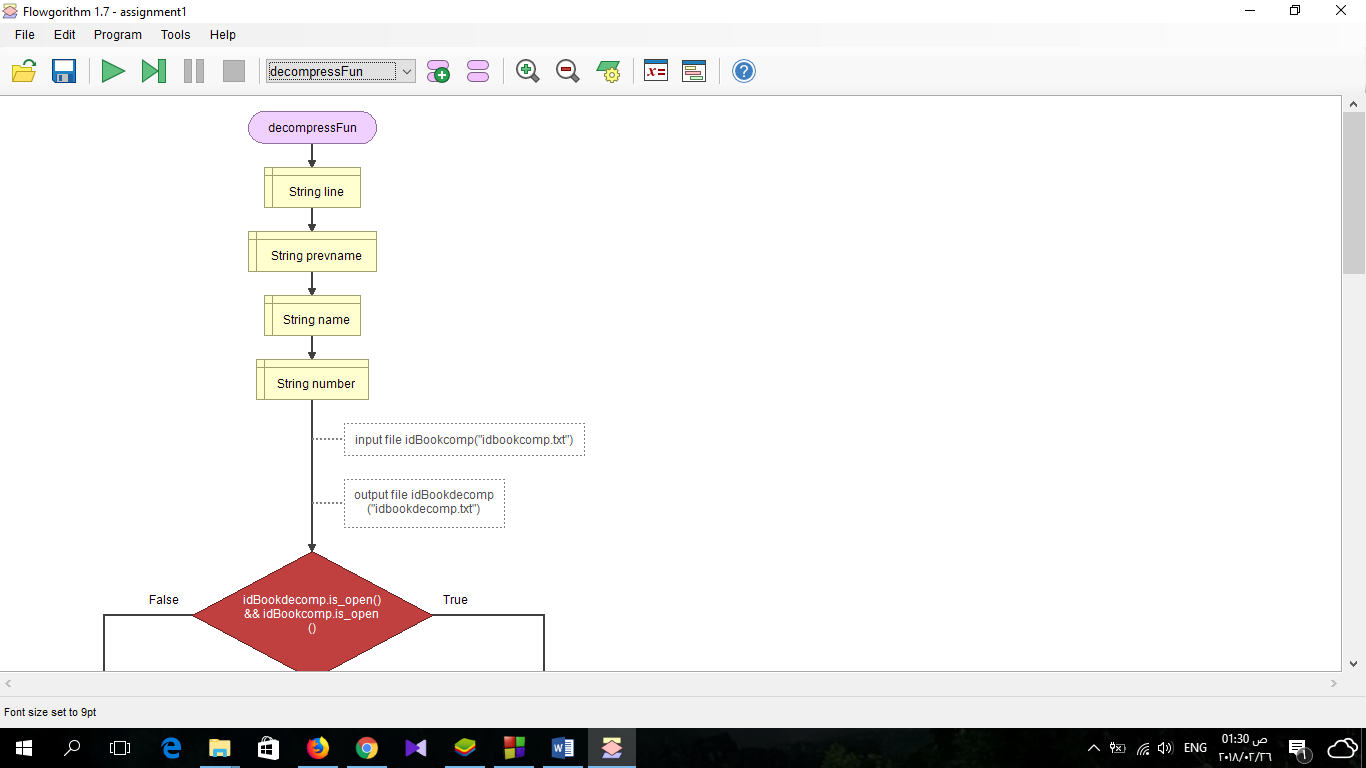


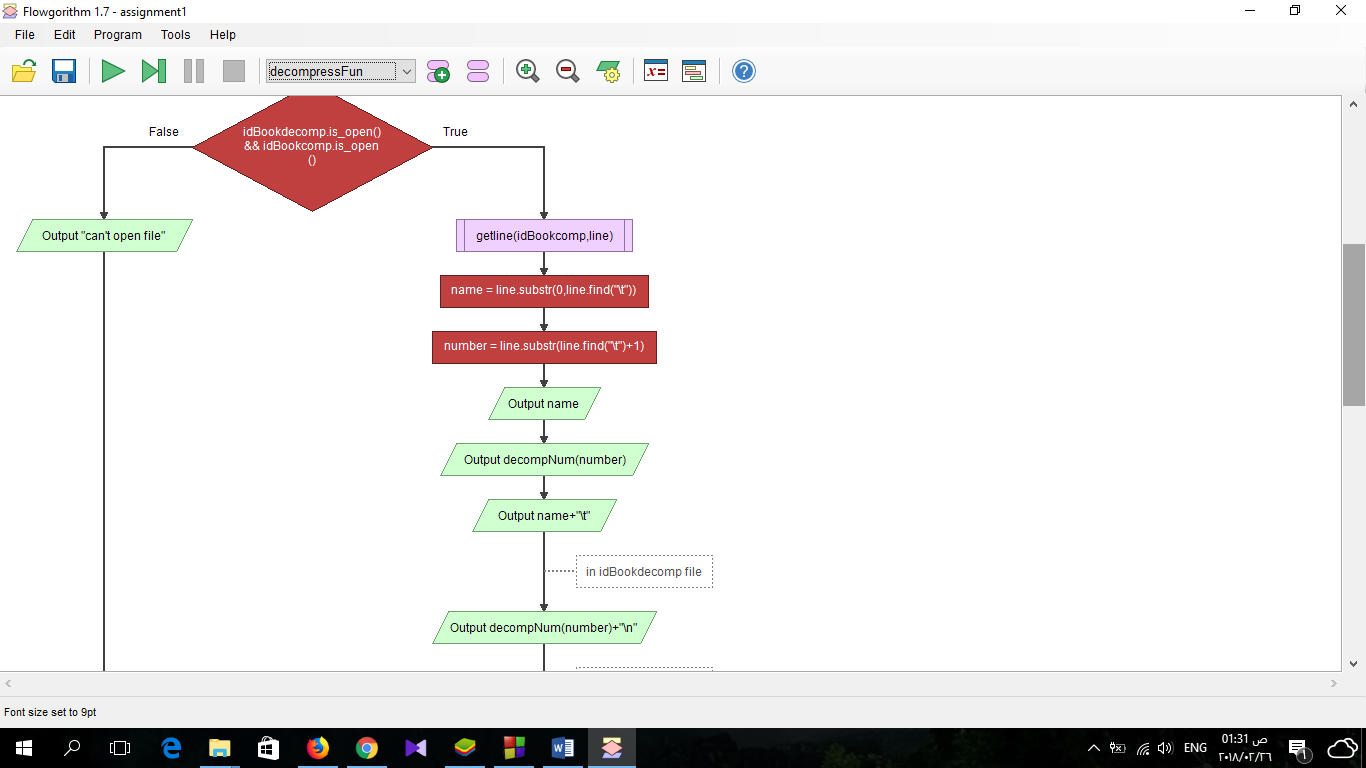


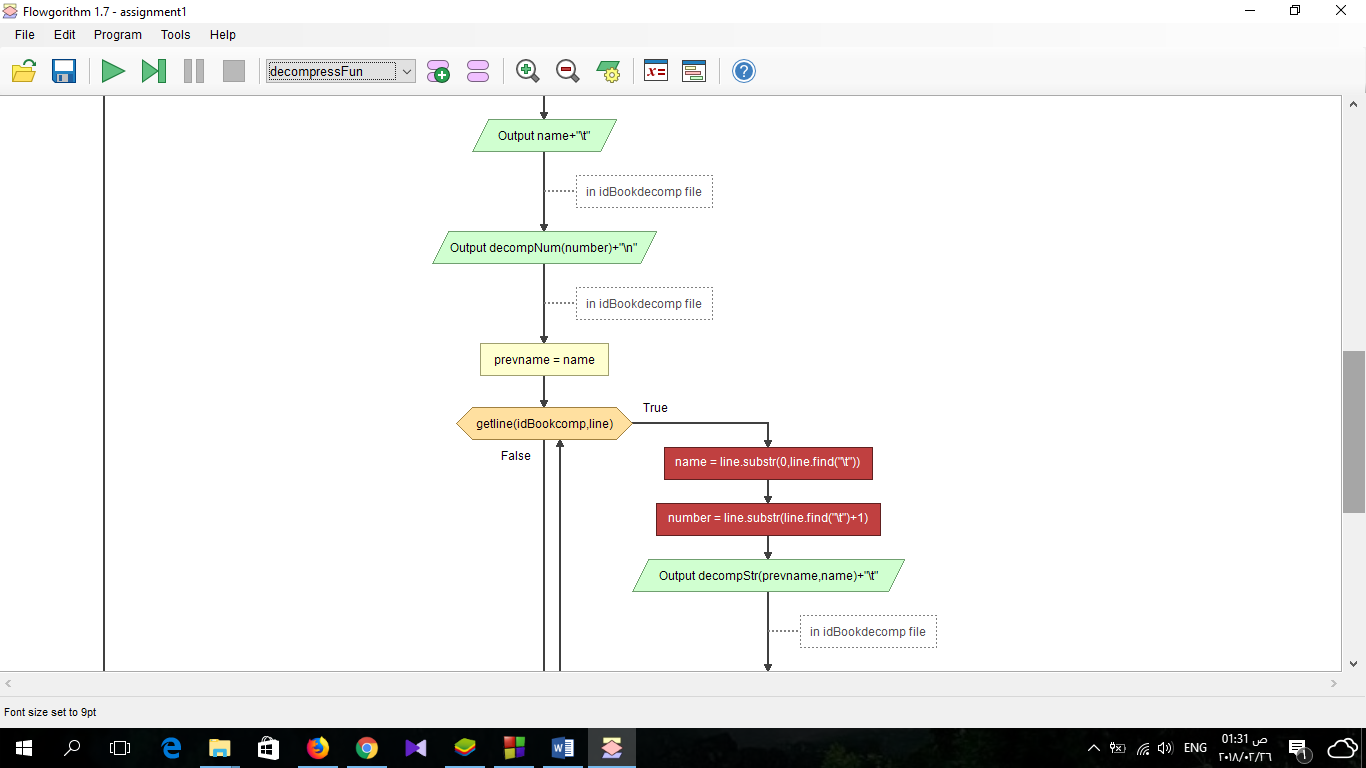
decompStr function:

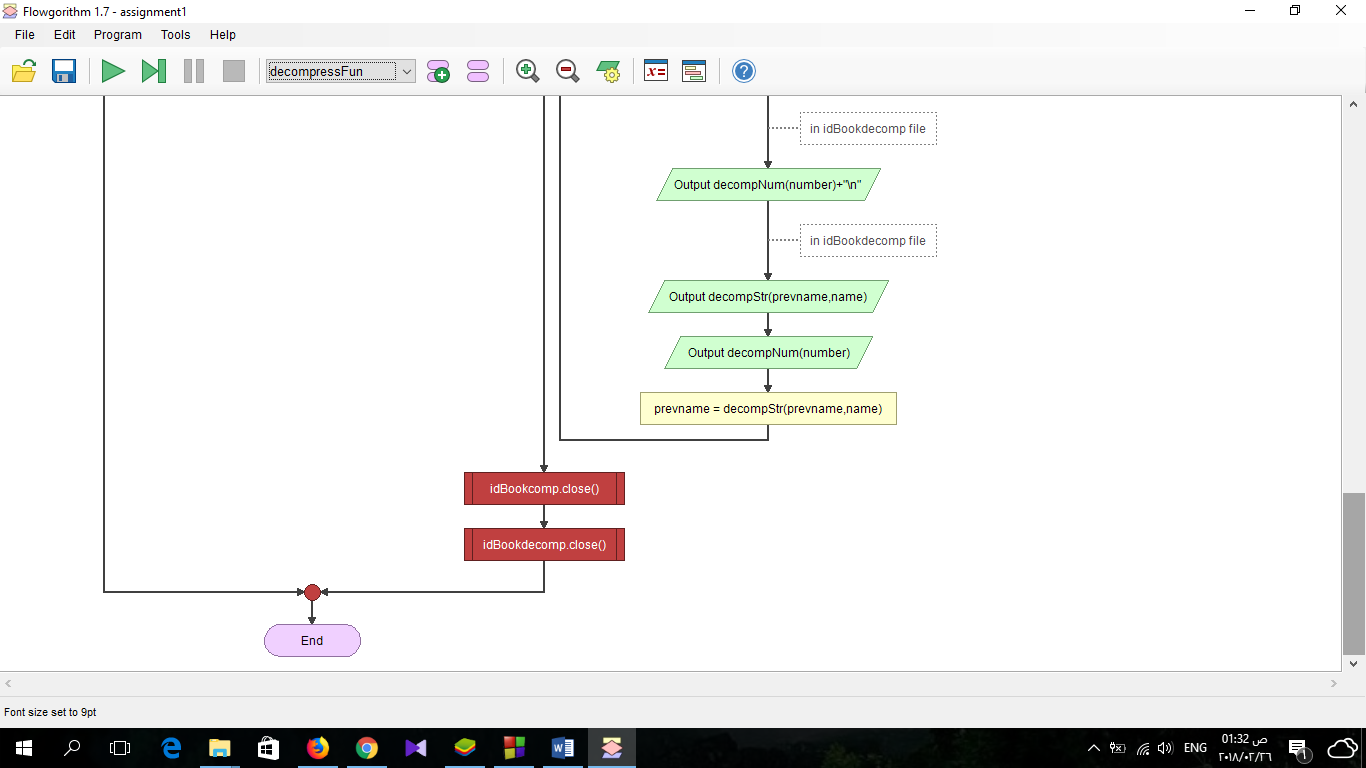


DecompressFunc function:

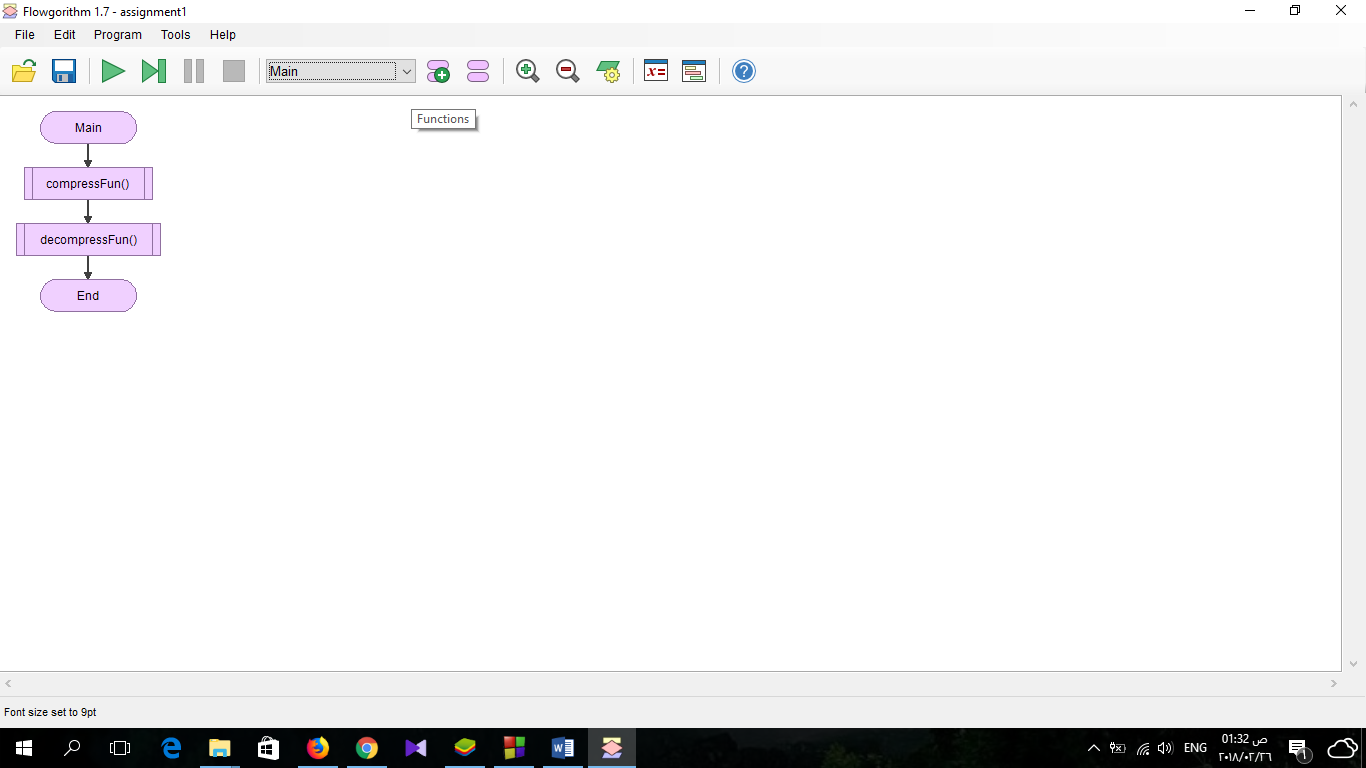




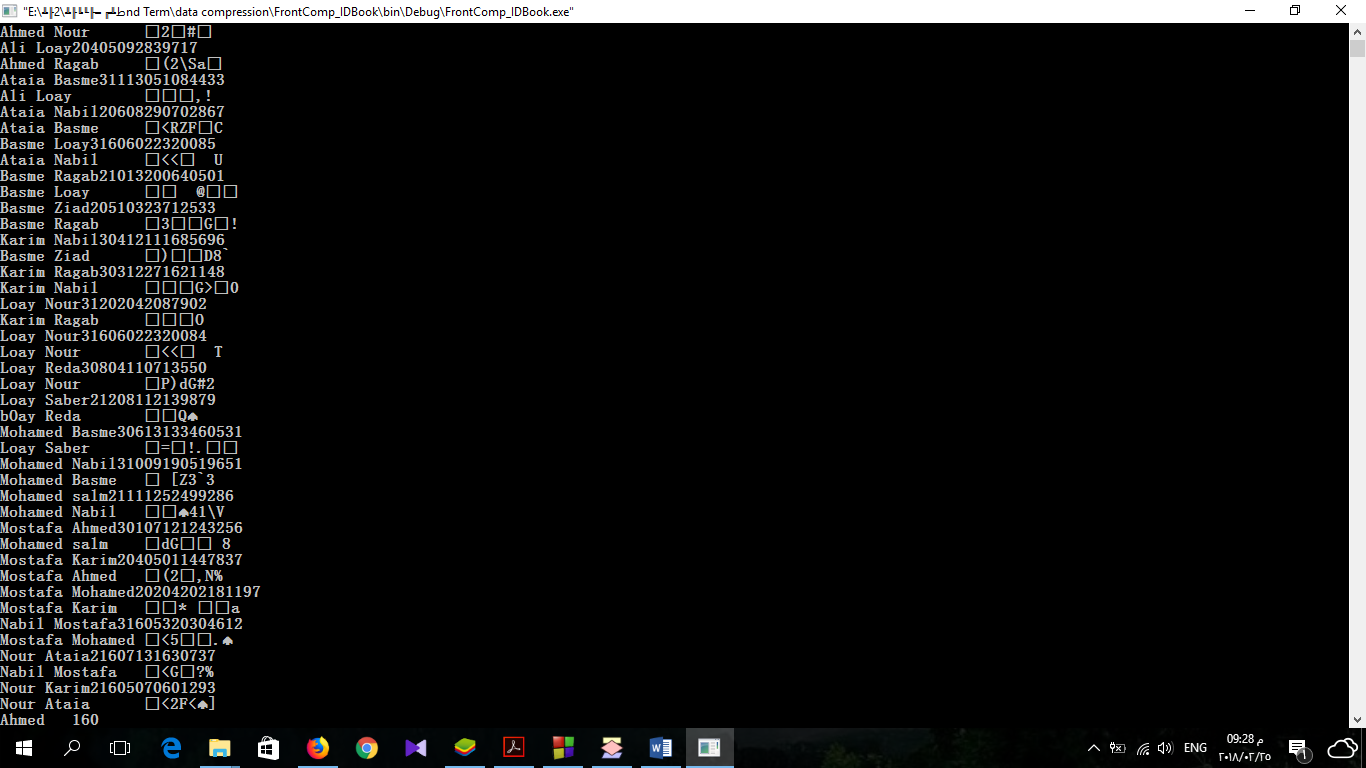




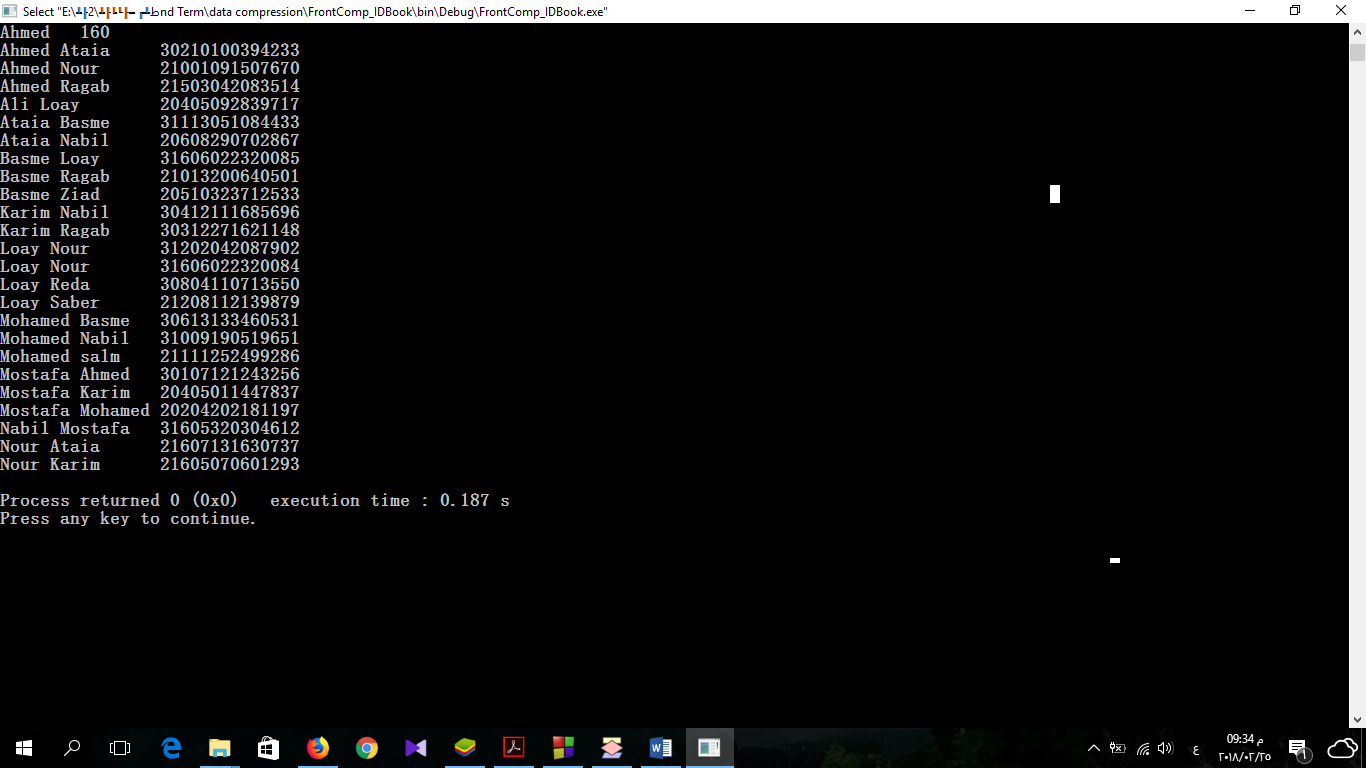
Main function:



Output sample: compression sample



Decompression sample:



conclusion: Data compression ratio is 37%.