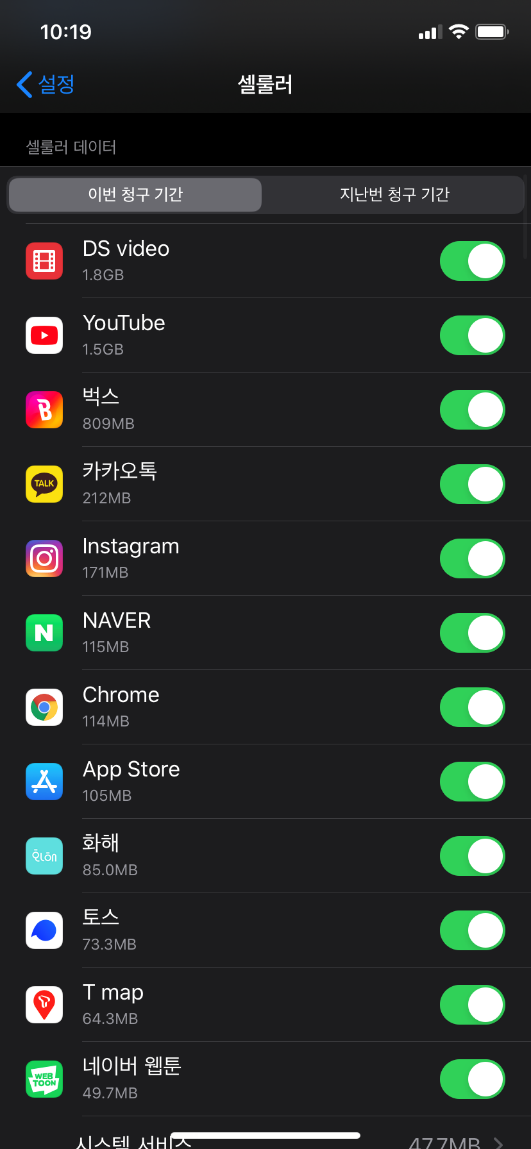
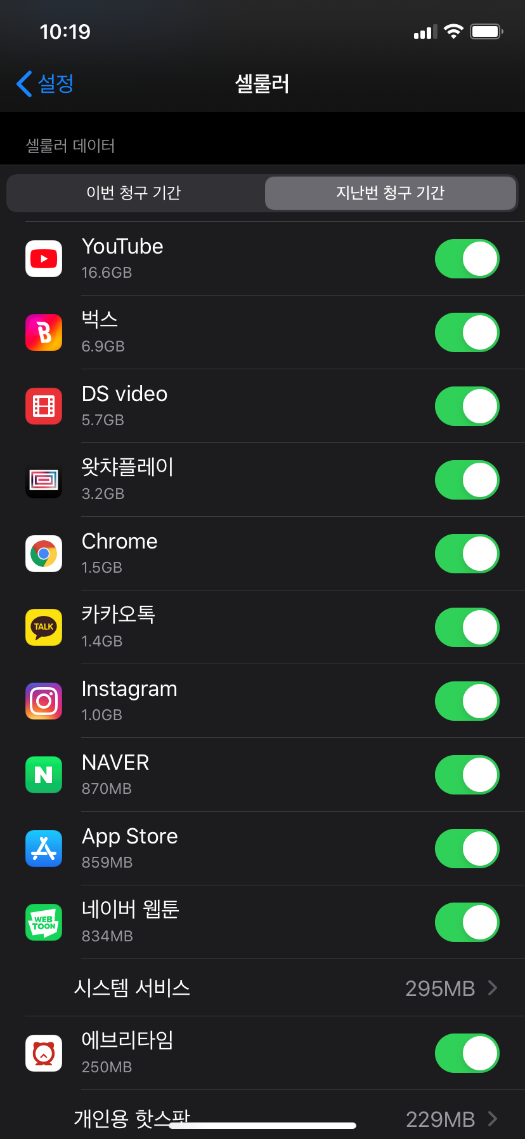
Computer Network Assignment 0

2015005796 Information System Hwang Injun

2018.12.01 ~ 2018.12.31 : 211, 880

2019.01.01 ~ 2019.01.31 : 80, 920

2019.02.01 ~ 2019.02.28 : 80, 750

2019.03.01 ~ 2019.03.31 : 80, 750

2019.04.01 ~ 2019.04.30 : 80, 750

2019.05.01 ~ 2019.05.31 : 80, 750

2019.06.01 ~ 2019.06.30 : 80, 750

52.28GB

1209 minutes

2019.07.01 ~ 2019.07.31 : 88, 000

6.68GB

464 minutes

2019.08.01 ~ 2019.08.31 : 97, 500

60.00GB

465 minutes

2019.09.01 ~ 2019.09.30 : 42.06GB

2019.10.01 ~ 2019.10.06 : 5.74GB

Number of apps : 168 applications

I found that so much unused application installed! Also, I figured out how much call I use, and I’m suitable person for infinite data because I watch so much videos during the commuting to school.

Computer Network Assignment1.1

2015005796 Information System Hwang Injun

import requests  
import time  
import telegram  
#  
# coin\_token = '930380527:AAGwzJNNwMK8NoxvUXblLjQxeNgRdGdgGew'  
# coin = telegram.Bot(token=coin\_token)  
# updates = coin.getUpdates()  
# for u in updates:  
# print(u.message)  
  
from telegram.ext import Updater  
  
class TelegramBot:  
 def \_\_init\_\_(self, name, token):  
 self.core = telegram.Bot(token)  
 self.updater = Updater(token)  
 self.id = 883266761  
 self.name = name  
  
  
  
  
  
class injunBot(TelegramBot):  
 def \_\_init\_\_(self):  
 self.token = '930380527:AAGwzJNNwMK8NoxvUXblLjQxeNgRdGdgGew'  
 TelegramBot.\_\_init\_\_(self, 'injun', self.token)  
 self.updater.stop()  
  
 def sendMessage(self, text):  
 self.core.sendMessage(chat\_id = self.id, text=text)  
  
  
  
url = "https://min-api.cryptocompare.com/data/price?fsym=BTC&tsyms=USD,KRW"  
response = requests.get(url).json()  
current= [0, 0]  
def requesting():  
 global current  
 url = "https://min-api.cryptocompare.com/data/price?fsym=BTC&tsyms=USD,KRW"  
 response = requests.get(url).json()  
 now = time.strftime('%Y-%m-%d-%H-%M', time.localtime(time.time()))  
 print(response)  
 up1 = current[0]  
 up2 = current[1]  
 current = list(response.values())  
 up1 = round(current[0] - up1, 2)  
 up2 = round(current[1] - up2, 2)  
 message = "BitFenix-BTC-USD: "+str(current[0])+", UP: "+str(up1) +"\nBithumb-BTC-KRW: " + str(current[1]) + ", UP: " + str(up2)  
  
  
  
 injun = injunBot()  
 injun.sendMessage(message)  
  
 with open("test.csv", "a") as csvfile:  
  
 csvfile.write(now)  
 csvfile.write(",")  
 for value in response.values():  
 csvfile.write(str(value))  
 csvfile.write(",")  
 csvfile.write("\n")  
 csvfile.close()  
  
  
  
  
from apscheduler.schedulers.blocking import BlockingScheduler  
scheduler = BlockingScheduler()  
  
scheduler.add\_job(requesting, 'interval', seconds=60)  
  
try:  
  
 scheduler.start()  
except(KeyboardInterrupt, SystemExit):  
 pass



This program is getting response from cryptocompare API. I can get current BTC-USD, BTC-KRW information from this API. Also, by using apscheduler and telegram-bot library, I can send message every 60 seconds. By subtracting before json values, I can compare how much exchange information is changed.

I felt difficulty of how to use API system, because I’ve never been used it. Furthermore, In python language I didn’t familiar with file open system, so I think I did little bit hard coding to save exchange information into csv file(database). But there is a lot of manual of how to make telegram bot through botfather, my fear of “making chatbot is too difficult” was gone.