Syrian Arab Republic

Lattakia - Tishreen University
Department of Communication and

electrical engineering

5th , Network Programming : Homework

No1

اللاذقية -جامعــة تشريـــن
كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

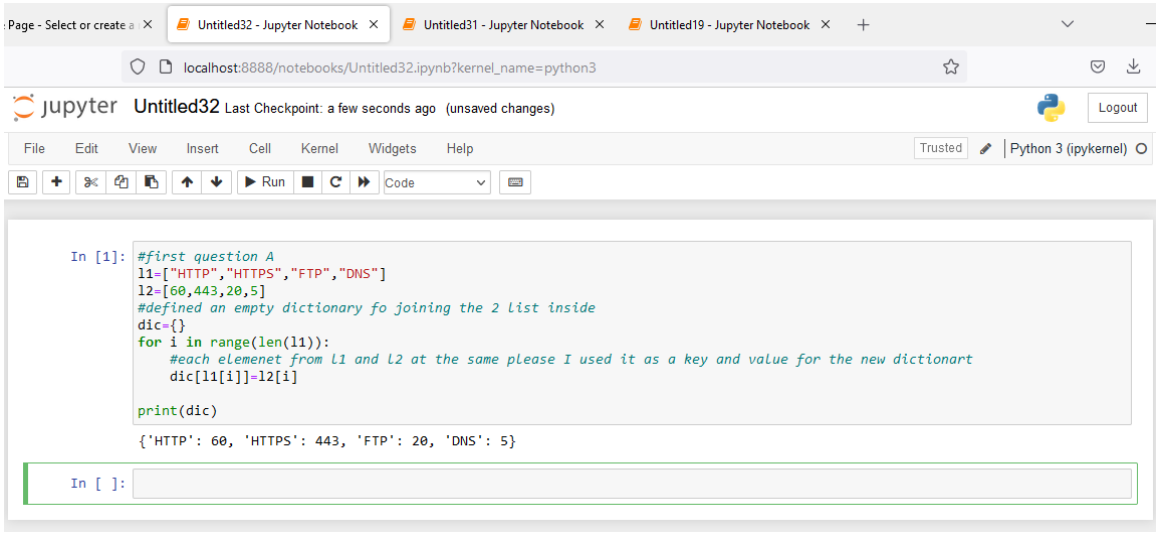
السنة الخامسة: وظيفة 1برمجة شبكات

Name:رهف ميمون مليكة, Number:2639, Submitted To GitHub:RahafMlaika

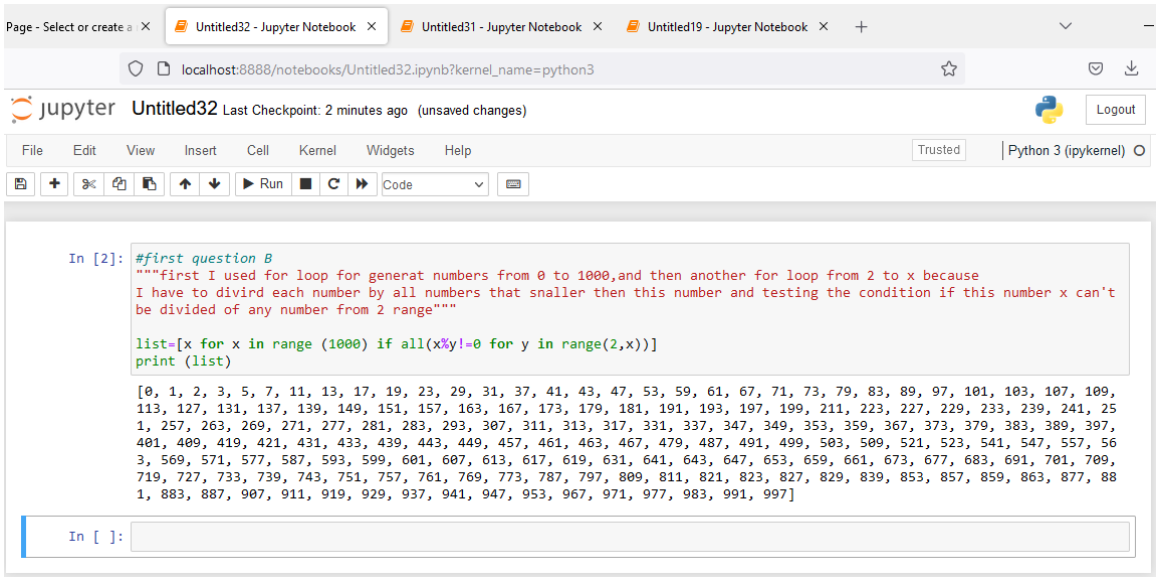
First Network Programming Homework

Question 1: Python Basics?

A-If you have two lists,
L1=[‘HTTP’,’HTTPS’,’FTP’,’DNS’] L2=[80,443,20,53], convert it to dictionary generate this
d={‘HTTP’:80,’HTTPS’:443,’FTP’:20,’DNS’:53 **}**



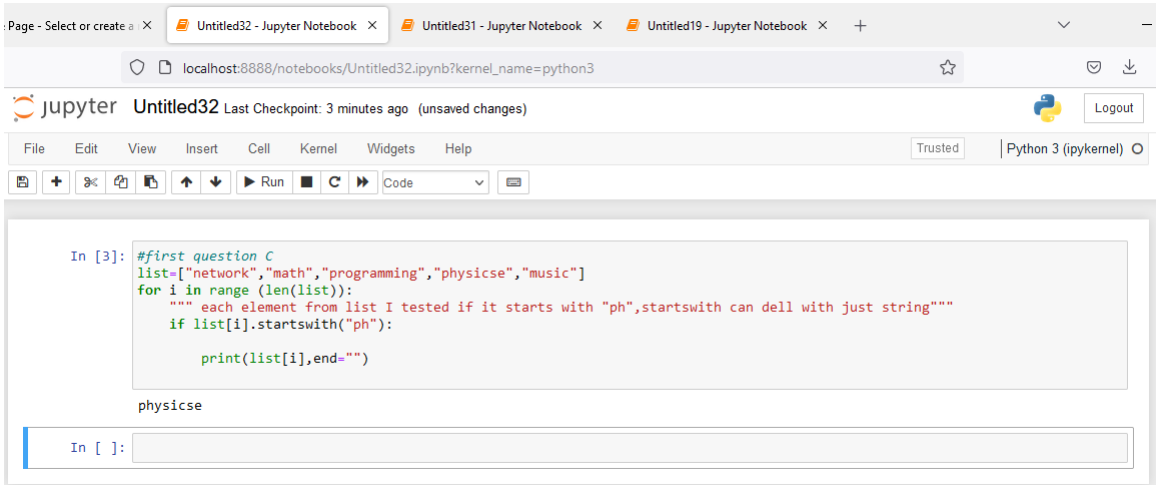
B- Generate and print a list of primary numbers from 1 to 1000.
Tips: “List Comprehension”



C- L=[‘Network’ , ’Math’ , ’Programming’, ‘Physics’ , ‘Music’]

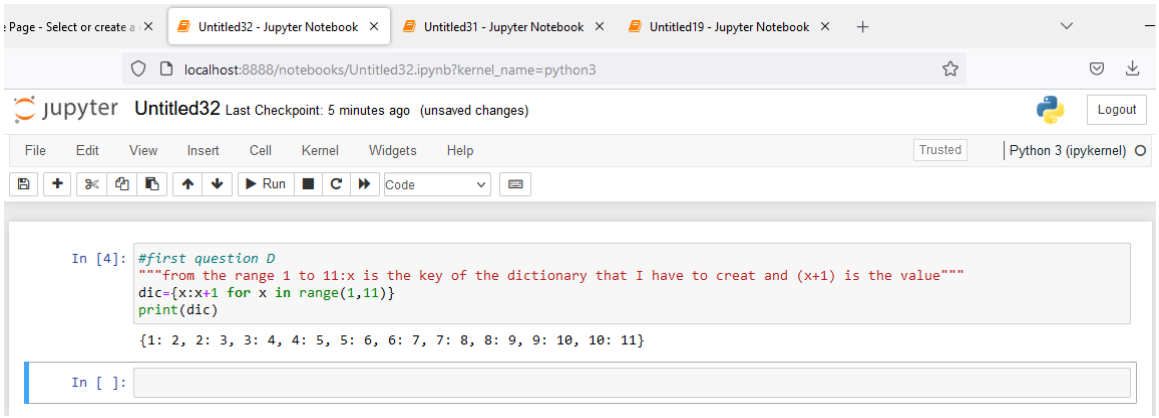
In this exercise, you will implement a Python program that reads the items of the previous list and identifies the items that starts with ‘Ph’ letter, then print it on screen.

Tips: using loop, ‘len ()’ , startswith() methods.



D: Using Dictionary comprehension, Generate this dictionary

d={1:2,2:3,3:4,4:5,5:6,6:7,7:8,8:9,9:10,10:11}



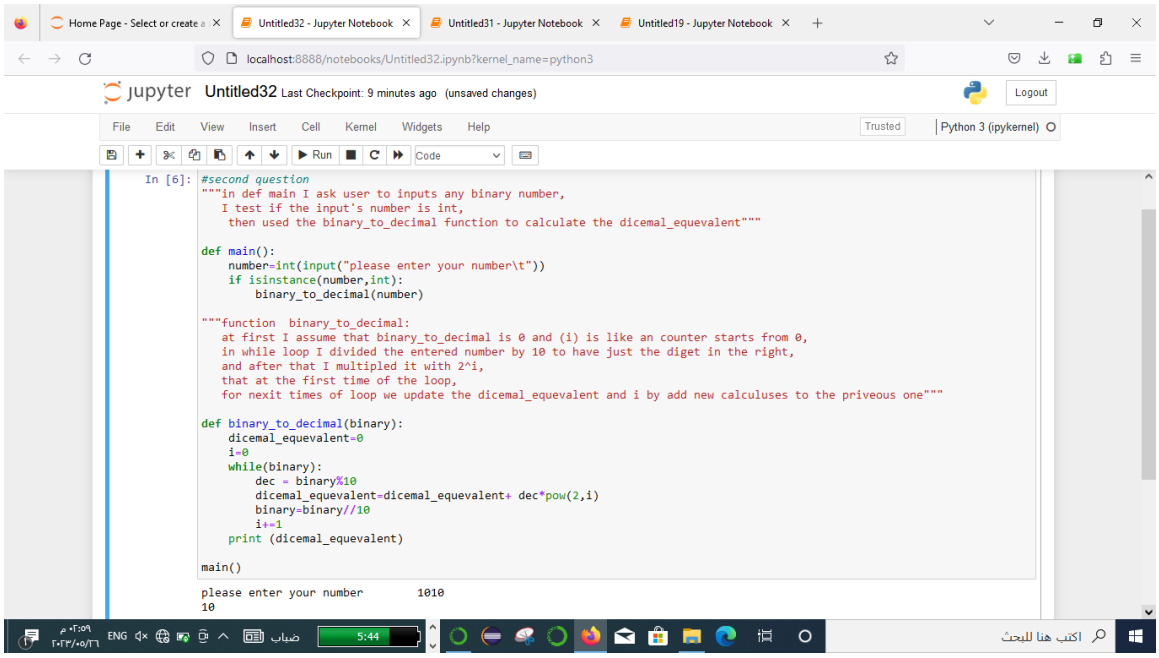
Question 2: Convert from Binary to Decimal

Write a Python program that converts a Binary number into its equivalent Decimal number.

The program should start reading the binary number from the user. Then the decimal equivalent number must be

calculated. Finally, the program must display the equivalent decimal number on the screen.

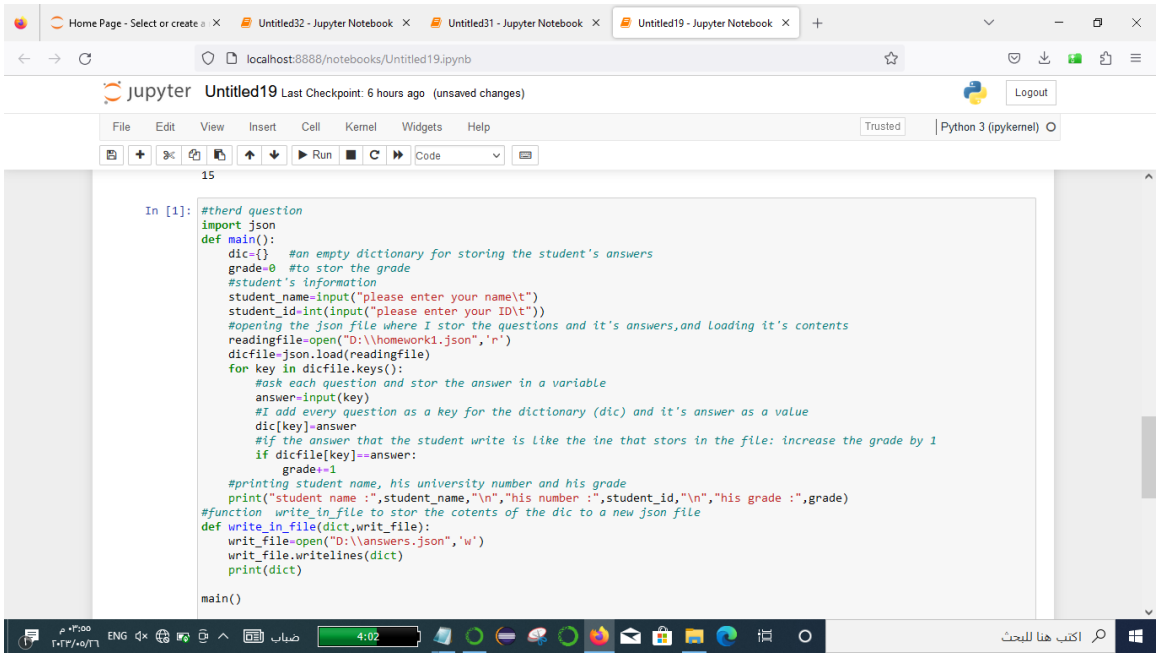
Tips: solve input errors



Question 3: Working with Files" Quiz Program"

Type python quiz program that takes a text or json or csv file as input for (20 (Questions, Answers)). It asks the

questions and finally computes and prints user results and store user name and result in separate file csv or json file


Home Page - Select or create
Untitled32 - Jupyter Notebook
Untitled31 - Jupyter Notebook
Untitled19 - Jupyter Notebook
localhost:8888/notebooks/Untitled19.ipynb
jupyter Untitled19 Last Checkpoint: 6 hours ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
15
In [1]:
#therd question
import json
def main():
dic={} #an empty dictionary for storing the student's answers
grade=0 #to stor the grade
#student's information
student_name=input("please enter your name\t")
student_id=int(input("please enter your ID\t"))
#opening the json file where I stor the questions and it's answers,and loading it's contents
readingfile=open("D:\\homework1.json",'r')
dicfile=json.load(readingfile)
for key in dicfile.keys():
#ask each question and stor the answer in a variable
answer=input(key)
#I add every question as a key for the dictionary (dic) and it's answer as a value
dic[key]=answer
#if the answer that the student write is like the ine that stors in the file: increase the grade by 1
if dicfile[key]==answer:
grade+=1
#printing student name, his university number and his grade
print("student name :",student_name,"\n","his number :",student_id,"\n","his grade :",grade)
#function write_in_file to stor the cotents of the dic to a new json file
def write_in_file(dict,writ_file):
writ_file=open("D:\\answers.json",'w')
writ_file.writelines(dict)
print(dict)
main()
4:02
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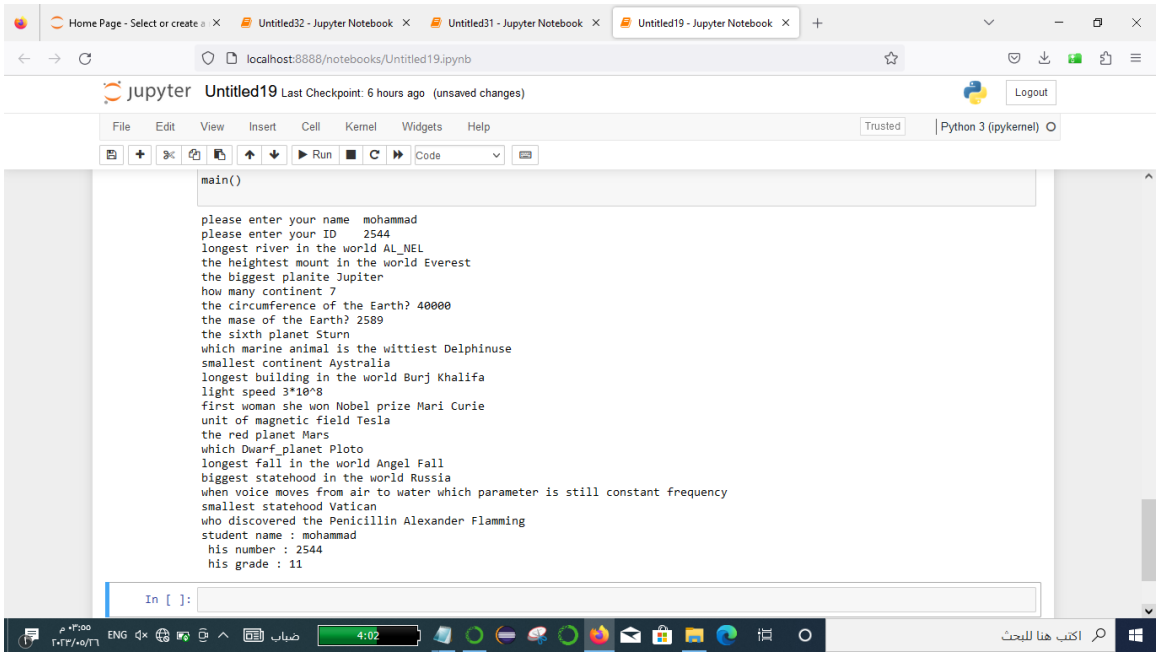
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jupyter Untitled19 Last Checkpoint: 6 hours ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
main()
please enter your name mohammad
please enter your ID 2544
longest river in the world AL_NEL
the heightest mount in the world Everest
the biggest planite Jupiter
how many continent 7
the circumference of the Earth? 40000
the mase of the Earth? 2589
the sixth planet Sturn
which marine animal is the wittiest Delphinuse
smallest continent Aystralia
longest building in the world Burj Khalifa
light speed 3*10^8
first woman she won Nobel prize Mari Curie
unit of magnetic field Tesla
the red planet Mars
which Dwarf_planet Ploto
longest fall in the world Angel Fall
biggest statehood in the world Russia
when voice moves from air to water which parameter is still constant frequency
smallest statehood Vatican
who discovered the Penicillin Alexander Flamming
student name : mohammad
his number : 2544
his grade : 11
In [ ]:
4:02
اكتب هنا للبحث