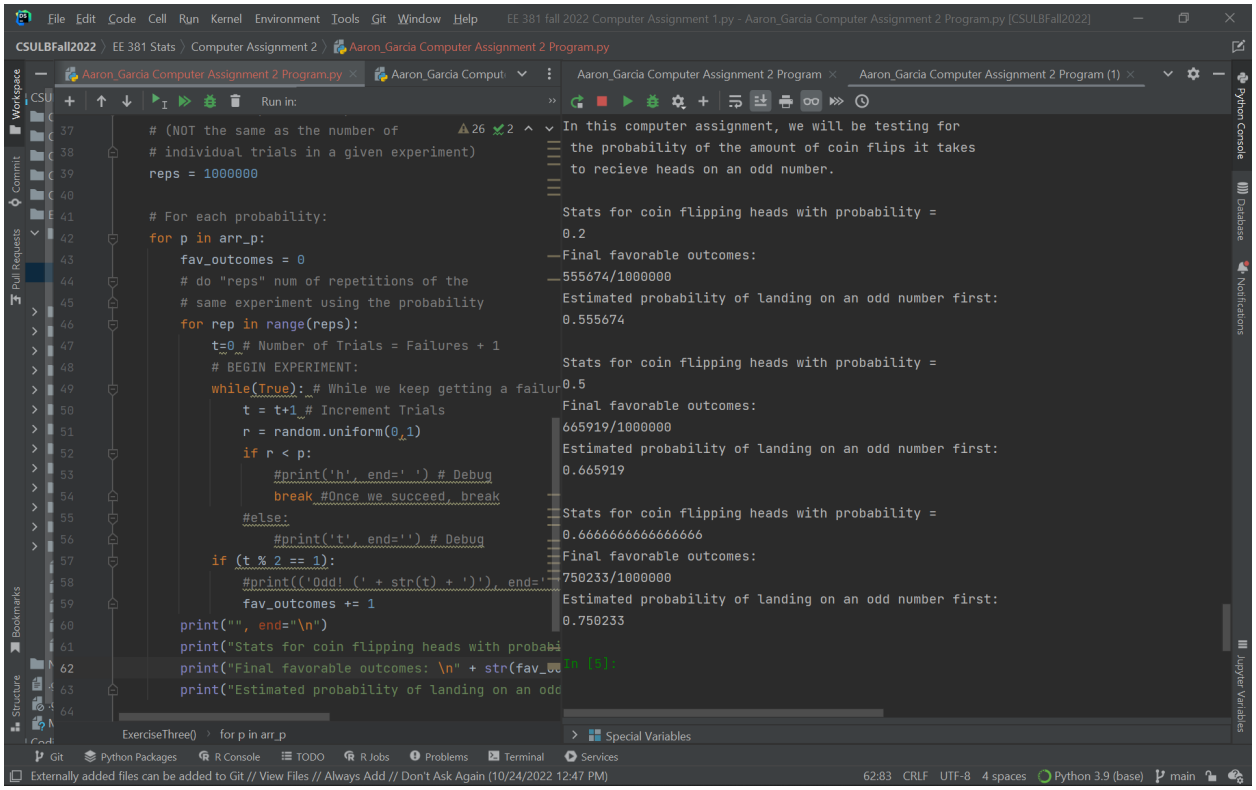
File Edit Code Cell Run Kernel Environment Tools Git Window Help
EE 381 fall 2022 Computer Assignment 1.py - Aaron_Garcia Computer Assignment 2 Program.py [CSULBFall2022]
CSULBFall2022 〉 EE 381 Stats 〉 Computer Assignment 2 〉 Aaron_Garcia Computer Assignment 2 Program.py
Aaron_Garcia Computer Assignment 2 Program.py
Aaron_Garcia Computer Assignment 2 Program
Aaron_Garcia Computer Assignment 2 Program (1)
Run in:
# (NOT the same as the number of
# individual trials in a given experiment)
reps = 1000000
# For each probability:
for p in arr_p:
fav_outcomes = 0
# do "reps" num of repetitions of the
# same experiment using the probability
for rep in range(reps):
t=0 # Number of Trials = Failures + 1
# BEGIN EXPERIMENT:
while(True): # While we keep getting a failur
t = t+1 # Increment Trials
r = random.uniform(0,1)
if r < p:
#print('h', end=' ') # Debug
break #Once we succeed, break
#else:
#print('t', end='') # Debug
if (t % 2 == 1):
#print(('Odd! (' + str(t) + ')'), end='
fav_outcomes += 1
print("", end="\n")
print("Stats for coin flipping heads with probabi
print("Final favorable outcomes: \n" + str(fav_ou
print("Estimated probability of landing on an odd
In this computer assignment, we will be testing for
the probability of the amount of coin flips it takes
to recieve heads on an odd number.
Stats for coin flipping heads with probability =
0.2
Final favorable outcomes:
555674/1000000
Estimated probability of landing on an odd number first:
0.555674
Stats for coin flipping heads with probability =
0.5
Final favorable outcomes:
665919/1000000
Estimated probability of landing on an odd number first:
0.665919
Stats for coin flipping heads with probability =
0.6666666666666666
Final favorable outcomes:
750233/1000000
Estimated probability of landing on an odd number first:
0.750233
In [5]:
ExerciseThree() 〉 for p in arr_p
Special Variables
Git Python Packages R Console TODO R Jobs Problems Terminal Services
Externally added files can be added to Git // View Files // Always Add // Don't Ask Again (10/24/2022 12:47 PM)
62:83 CRLF UTF-8 4 spaces Python 3.9 (base) main