ASSIGNMENT 1

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ROLL NO.:59

CODE: -

hash\_table = [[] for i in range(10)]

def display\_function(hash\_table):

for i in range(len(hash\_table)):

print(i,end = "")

for j in hash\_table[i]:

print("", end = " ")

print(j, end = "")

print()

#def hash\_function(key):

# return key%10

def insert(hash\_table,key , key\_value):

index = hash\_function(hash\_table,key)

hash\_table[index] = key\_value

def hash\_function(hash\_table,key) :

# Hash function h(x) = x%10

index = key%10

if hash\_table[index] == [] :

return index

else :

# Implementing linear probing

while hash\_table[index] != [] :

index = (index+1)%10

return index

num = int(input("Enter the no of clients : "))

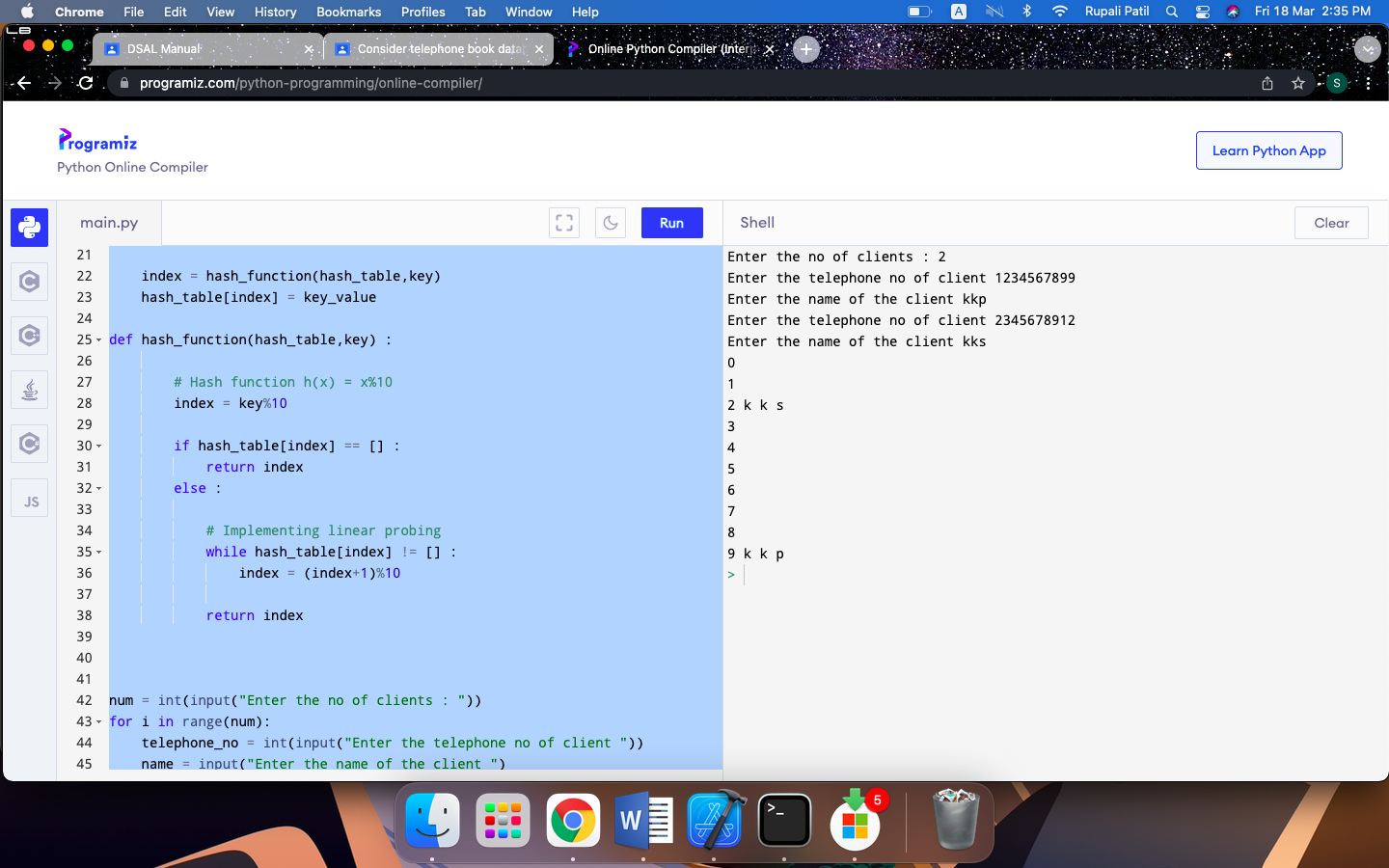
for i in range(num):

telephone\_no = int(input("Enter the telephone no of client "))

name = input("Enter the name of the client ")

insert(hash\_table,telephone\_no,name)

display\_function(hash\_table)

OUTPUT:-s