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ASSIGNMENT 3

­­­­­­ Question 1

def MakeList(a , b):

l=[i for i in range(a,b+1) if i%2!=0]

return l

l = MakeList(100 , 200)

print(l)

output

[101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199]

Question 2

n = int(input("Enter a Number : "))

s= sum([i\*\*2 for i in range(n+1)])

print("sum is" , s)

output

Enter a Number : 6

sum is 91

question 3

try:

filename = "C:/Users/PRITHAM/Desktop/nopse.txt"

f = open(filename)

print("Opened File")

l = [1,2,3,4,5]

print(l[3])

a = 0

ans = 13 / a

except OSError:

print("Error : Resolved File Open Error!!!")

except IndexError:

print("Error : Resolved Index Error!!!")

except ZeroDivisionError :

print("Error : Divide By Zero Resolved!!!")

except:

print("Error : Handle super class Exceptions!!!")

finally:

print("Thank You You are out from all the errorssss!!!!")

output

Opened File

4

Error : Divide By Zero Resolved!!!

thank You You are out from all the errorssss!!!!

Question 4

with open("C:\\Users\\PRITHAM\\Desktop\\Nopse.txt") as f:

s = f.read()

s = s.lower()

words = s.split()

count = 0

for word in words:

if word[0] == 's' and word[-1] == 'r':

count+=1

print("No of Words : {}".format(count))

Output

No of Words : 3

Question 5:

import csv

import numpy as np

import matplotlib.pyplot as plt

with open('C:\\Users\\PRITHAM\\Desktop\\All Folder\\PYTHON PRG\\sales\_data\_sample.csv','r') as csv\_file:

csv\_reader=csv.reader(csv\_file)

next(csv\_reader)

print("Welcome For Filter based on Purchase Value")

a=int(input("Enter lower limit : "))

b=int(input("Enter Upper limit : "))

for line in csv\_reader:

x=line[11]

if int(x)>=a and int(x)<=b:

for column in line:

print(column,end=' ')

print()

# Ploting the graph

with open('C:\\Users\\PRITHAM\\Desktop\\All Folder\\PYTHON PRG\\sales\_data\_sample.csv','r') as csv\_file:

csv\_reader=csv.reader(csv\_file)

next(csv\_reader)

n1=0

n2=0

n3=0

for line in csv\_reader:

x=float(line[4])

if x>=1000 and x<=2000:

n1+=1

elif x>2000 and x<=5000:

n2+=1

elif x>=5001 and x<=10000:

n3+=1

print(n1,n2,n3)

x = np.array(['1000-2000' , '2001-5000' , '5001-10000'])

y = np.array([n1,n2,n3])

plt.bar(x,y,color='green',width=0.5)

plt.ylabel("Number of Customers")

plt.xlabel("Sales")

plt.title("Number of Customers filtered based on sales prices")

plt.show()

OUTPUT:

Welcome For Filter based on Purchase Value

Enter lower limit : 30

Enter Upper limit : 35

10101 45 31.2 3 ………………………………………………………………………………………………. Roland Small

10110 20 35.51 3 …………………………………………………………………………………………….. Victoria Small

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10412 30 36.07 6………………………………………………………………………………………………. Diego Small

10425 31 33.24 5 ………………………………………………………………………………………………….. Janine Small

