**Week 10**

* Monday
* Exercise 1

def containOneA(astring):

for n in astring:

if n=="A" or n=="a":

return True

return False

Enter= input("> ")

print(containOneA(Enter))

* Exercise 2

def getFirstName(text):

for n in range(len(text)):

if text[n]==";":

return text[:n]

def getLastName(text):

for i in range(len(text)):

if text[i]==";":

return text[i+1:]

world = input("Enter a text : ")

print("First name : " + getFirstName(world))

print("Last name : " + getLastName(world))

* Tuesday

def isInteger(text):

if text.isdigit() :

return True

else:

return False

def isValueInRange(value, min, max):

if value>=min and value<=max:

return True

else:

return False

valueText = input("Enter the value : ")

minText = input("Enter the min : ")

maxText = input("Enter the max : ")

if isInteger(valueText) and isInteger(minText) and isInteger(minText):

value = int(valueText)

min = int(minText)

max = int(maxText)

if isValueInRange(value, min, max):

print("Correct value")

else:

print("Error : value " + valueText +

" is not in range " + minText + ", " + maxText)

else:

print("Error : value, min, max should be numbers")

* Wednesday

def getDotIndex(string):

for n in range(len(string)):

if string[n]==".":

print("Integer part: ", string[:n])

print("Decimal part: " , string[n+1:])

return

return -1

Enter= input("Enter float: ")

if getDotIndex(Enter)==-1:

print("Integer part: ", Enter)

* Friday
* Exercise 1

def factorial(integer):

result =1

for n in range(1,integer+1):

result= result\*n

return result

number= int(input("> "))

print(factorial(number))

* Exercise 2

def sum(string):

sumofnumber= 0

for n in range(len(string)):

if string[n]==";":

sumofnumber= sumofnumber+ int(string[n-1])

return sumofnumber

number= input("> ")

print(sum(number))

* Thursday

def getPopulation(country):

if country=="China":

return 1439323776

elif country=="India":

return 1380004385

elif country=="USA":

return 331002651

elif country=="Indonesia":

return 273523615

elif country=="Pakistan":

return 220892340

else:

return -1

country1=input("Country 1: ")

country2=input("Country 2: ")

country3=input("Country 3: ")

getPopulationcountry1= getPopulation(country1)

getPopulationcountry2=getPopulation(country2)

getPopulationcountry3=getPopulation(country3)

if getPopulationcountry1 ==-1 or getPopulationcountry2 ==-1 or getPopulationcountry3 ==-1:

print("Error,bad country name entered")

elif getPopulationcountry1 > getPopulationcountry2 and getPopulationcountry1 > getPopulationcountry3:

print("Largest population country is: ",country1)

elif getPopulationcountry2 > getPopulationcountry1 and getPopulationcountry2 > getPopulationcountry3:

print("Largest population country is: ",country2)

elif getPopulationcountry3 > getPopulationcountry1 and getPopulationcountry3 > getPopulationcountry2:

print("Largest population country is: ",country3)