##Declare pWord, x as string

##Declare accepted as boolean

##

##define pass\_validate(x)

## Set vLower = 'abcdefghijklmnopqrstuvwxyz'

## Set vUpper = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'

## Set vNum = '0123456789'

## Set vChar = '$#@'

## if((x is subset(vLower) and x is subset(vUpper)) and (x is subset(vNum) and x is subset(vChar)))Then

## Set accepted = True

## Write "Password is valid."

## else

## Set accepted = false

## Write "The password you entered is invalid. Try again."

##end module

##

##define main()

## Set accepted = False

## while(accepted == False)

## Write "Enter your password. It must contain at least 1 lower, 1 uppercase letters,

## 1 number between 0-9, and one of the special characters $#@"

## Get pWord

## if(len(pWord) < 6 and len(pWord) > 16) Then

## Write "Your password must be between 6-16 characters. Please re-enter your password. "

## Get pWord

## end if

## pass\_validate(pWord)

## end if

## end while

##end module

##

##main()

def pass\_Validate(x): ##Defining the validate function

import re

##Predefined variable sets

## vL = re.compile('abcdefghijklmnopqrstuvwxyz')

## vU = re.compile('ABCDEFGHIJKLMNOPQRSTUVWXYZ')

## vN = re.compile('0123456789')

## vC = re.compile('$#@')

vPass = re.compile('[$#@a-zA-Z0-9\_\w]')

##Checking the entered variable against the predefined sets of acceptable characters

print(re.findall(vPass, x))

if(re.search(vPass, x) == None):

## if((re.search(vL, x) and re.search(vU, x)) and (re.search(vN, x) and re.search(vC, x))):

print("The password is invalid! Try again.")

else:

print("The password you entered is valid.")

def main(): ##Defining the main fucntion

pWord = str(input("Enter your password "))

print(pWord)

if(len(pWord) < 6 or len(pWord) > 16): ##Validating the password length

pWord = input("Your password must be between 6-16 characters. Try again: ")

else:

pass\_Validate(pWord) ## calling the Validation function

main() ##Calling the main function to run the program