Run = TRUE

Counter = 0

change\_account = TRUE

IMPORT os.path

FROM decimal IMPORT decimal

FUNCTION line\_num(filename)

WITH OPENREAD(filename) AS f

FOR i,l IN ENUMERATE(f)

PASS

RETURN i + 1

ENDFUNCTION

WHILE run = TRUE

WHILE change\_account = TRUE

loop5 = TRUE

WHILE loop5 = TRUE

login = INPUT(“LOGIN or CREATE ACCOUNT: “)

login = login.LOWER()

IF login == “login” OR “create account”

Loop5 = FALSE

ELSE

PRINT(“Please enter valid answer.”)

ENDIF

ENDWHILE

PRINT(“(Username and password are case sensitive.)”)

ENDWHILE

WHILE change\_account = TRUE

IF login = “login”

PRINT(“login”)

Username = INPUT(“Username: “)

Password = INPUT(“Password: “)

IF path to username == TRUE

userRead = OPENREAD(path to account details)

userCheck = userRead.READLINE()

IF userRead = username+password

PRINT(“Login accepted”)

change\_account = FALSE

Continue = TRUE

ELSE

PRINT(“Username or password incorrect, try again.”)

ENDIF

ELSEIF path to account details == FALSE

PRINT(“Account does not exist.”)

ENDIF

ENDIF

IF login = “create account”

Username = INPUT(“Username: “)

Password = INPUT(“Password: “)

IF path to account details == FALSE

userCreate = OPENWRITE(path to account details)

userCreate.WRITELINE(username+password)

userCreate.CLOSE

login = “login”

ELSEIF path to account details == TRUE

PRINT(“Username already taken, try another”)

ENDIF

ENDIF

ENDWHILE

WHILE Continue == TRUE

Loop3 = TRUE

WHILE loop3 == TRUE

PRINT(“Subjects available:\NMaths\NGeography\NSpanish”)

subject = INPUT(“Subject”)

subject = subject.LOWER()

IF subject == “maths” OR subject == “geography” OR subject == “spanish”

loop3 = FALSE

ELSEIF

PRINT(“We do not currently have that subject.”)

ENDIF

ENDWHILE

loop4 = TRUE

WHILE loop4 == TRUE

difficulty = INPUT(“Difficulty (easy/medium/hard): “)

difficulty = difficulty.LOWER()

IF difficulty == “easy” OR difficulty == “medium” OR difficulty == “hard”

loop4 = FALSE

ELSE

PRINT(“Please enter a valid difficulty.”)

ENDIF

ENDWHILE

qnum = 1

mark = 0

IF path to username == FALSE

createHSFile = OPENWRITE(path to username)

createHSFile.WRITELINE(“0”)

createHSFile.CLOSE()

ENDIF

WHILE qnum <= 4

subjectQ = OPENREAD(path to questions)

subjectQAns = OPENREAD(path to answers)

question = subjectQ.READLINE()

answer = subjectQAns.READLINE()

subjectQ.CLOSE()

subjectQAns.CLOSE()

ans = INPUT(question)

IF ans == answer

mark = mark + 1

ENDIF

qnum = qnum + 1

ENDWHILE

IF mark == 0

grade = “U”

ENDIF

IF mark == 1

grade = “D”

ENDIF

IF mark == 2

grade = “C”

ENDIF

IF mark == 3

grade = “B”

ENDIF

IF mark == 4

grade = “A”

ENDIF

finalMark = (STR(mark)+”/4”)

percentage = (STR(mark\*25)+” %”)

PRINT(finalMark)

PRINT(percentage)

PRINT(grade)

IF path to user scores == FALSE

subjectScore = OPENWRITE(path to user scores)

subjectScore.WRITELINES(STR(mark))

subjectScore.CLOSE()

ELSEIF path to user scores == TRUE

subjectScore = OPENREAD(path to user scores)

userSubjectScore = subjectScore.READLINES()

subjectScore.CLOSE()

writeLatestScore = OPENWRITE(path to user score)

allScores = STR(userSubjectScore)+”\N”+STR(mark)

subjectScore = OPENWRITE(path to user score)

subjectScore.WRITELINES(allScores)

subjectScore.CLOSE()

ENDIF

subjectScore = OPENREAD(path to subject highscore)

subjectHighScore = subjectScore.READLINES()

subjectScore.CLOSE()

IF mark > INT(STR(subjectHighScore[:1]))

subjectWrite = OPENWRITE(path to subject highscore)

subjectWrite.WRITELINES(STR(mark)+”\N”+username.UPPER())

subjectWrite.CLOSE()

ENDIF

loop1 = TRUE

WHILE loop1 == TRUE

Next = INPUT(“Would you like a report on progress, or highscore?: ")

Next = Next.LOWER()

IF Next == “report”

TRY

username = INPUT(“Which user’s scores would you like to see?: “)

numLines = line\_num(path to input user’s scores file)

IF path to input user’s score file == TRUE

loop1 = FALSE

ENDIF

strLines = OPENREAD(path to input user’s scores file)

lines = LIST(strLines)

p = STR(lines)

strLines.CLOSE()

WHILE counter < numLines

lines[counter] = lines[counter][:1]

counter = counter + 1

ENDWHILE

total = 0

FOR line IN lines

num = 0

num += INT(line)

total += INT(num)

average = total/numLines

PRINT(“Average score: “+STR(average))

EXCEPT FileNotFoundError

PRINT(“That user does not exist.”)

ELIF Next == “highscore”

loop1 = False

TRY

running = OPENREAD(path to subject highscore file)

out\_of = running.READLINES()

variable\_names = STR(out\_of)

out\_of[0] = out\_of[0][:1]

PRINT(out\_of[1]+”: “+out\_of[0])

EXCEPT FileNotFoundError

PRINT(“That user does not exist.”)

ENDIF

ENDWHILE

loop2 = TRUE

WHILE loop2 == TRUE

again = INPUT(“\NWould you like to change accounts, do another quiz, or logout? “)

again = again.LOWER()

IF again == “logout”

loop2 = FALSE

run = FALSE

change\_account = FALSE

Continue = FALSE

ELSEIF again == “change accounts”

loop2 = FALSE

change\_account = FALSE

Continue = FALSE

ELSEIF again == “do another” OR again == “do another quiz”

loop2 = FALSE

Continue = TRUE

ELSE

PRINT(“Please enter a valid answer.”)

ENDIF

ENDWHILE

ENDWHILE

ENDWHILE