Chapter 2: Iteration P2 Question Sheet 1

Instructions

You will need to use the textbooks from the shelf to complete the questions/tasks. GCSE for OCR Computer Science Student Book. You have all been given your own copy, so just type directly into this document.

Indefinite Loops

With indefinite loops we don't know how many times the code will loop around because in will quit the loop when a condition is met like a definite loop, but this time we don't know when the condition will be met.

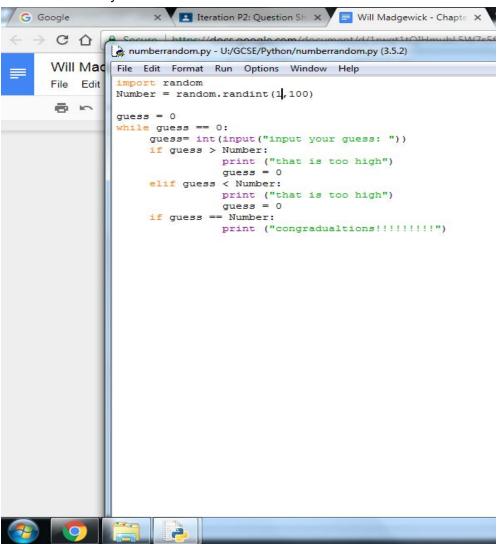
- 1. Look at the pseudocode at the bottom of page 29 and continues over on page 30. What do you think the program would do. Explain below.it would make a user input a password that would then become the storedPassword that can then be used as a safe keep and will only display a message when the storedpassword in then repeated
- 2. Copy the code below into Python or Repl.it. This is an example of an indefinite loop because the number of times it can loop around can vary (is not definite) as it depends on the number of times it takes to get the password correct. Once you have the code working. Explain how the code works below using technical language. The variable password is coded to the word secrate and uless the correct word of secrate is used it will display "sorry the value entered is incorrect try again " if the variables assigned name of secret is input the screen will display Thank you. You have entered the correct pasword"

```
1
    #Indefinite Iteration
2
3
4 -
    def password():
       password = ""
5
       while password != "secret":
6 +
7
         password = input("Please enter the password: ")
8
         if password == "secret":
9 +
           print("Thank you. You have entered the correct password")
10
11 -
           print("Sorry the value entered in incorrect - try again")
12
13
     password()
14
15
```

- 3. There is one main difference between the WHILE loop and the DO UNTIL loop, what is it? A while loop keeps hapening throughout the codes running span wheras the do until loop comparision is not done until the end of the code block
- 4. Look at the pseudocode on page 32. It is designed to create a guessing number game. Try to code this up in Python and screenshot your code below. Remember you will need to convert the input to an integer and there will be a few other differences like using: at the end of IF statements and the

Chapter 2: Iteration P2 Question Sheet 1

elseif are elif in Python etc.



Chapter 2: Iteration P2 Question Sheet 1

5. Look at activity 2.3 at the bottom of page 32. You need to improve your game so it gives the user the option to play again. Implement this in your code and screenshot your code below.

```
ues
hig
B90
   numberrandom.py - U:/GCSE/Python/numberrandom.py (3.5.2)
    File Edit Format Run Options Window Help
    def game():
       import random
      Number = random.randint(1,100)
      guess = 0
0
      while (guess == 0):
          guess= int(input("input your guess: "))
          if guess > Number:
                     print ("that is too high")
                     guess = 0
          elif guess < Number:
                     print ("that is too high")
                     guess = 0
ues
          if guess == Number:
                     print ("congradualtions!!!!!!!")
ues
                     print (input ("do you want to play again: "))
                     yes = input()
ues
                     if yes == "y":
hig
    game ()
to
to
to
to
```

6. You have now finished all the tasks for today. If there is still time left in the lesson please continue to read Chapter 2 and Chapter 3. Do not pester your cover teacher and behave like good boys and girls:)