**Homework 1: The basics**

1. State the best data type for each of the following [3]

(a) A piece of text

String

(b) A whole number

Integer

(c) A number with a decimal place

Float

2. Examine the following code: [1]

code = 36

fName = "Lucy"

sName = "Smith"

Which **one** of the following would produce the result “SmithLucy36”?

⬨ print(fName + sName + code)

⬨ print(sName + fName + int(code))

⬧ print(sName + fName + str(code))

⬨ print(sName + fName + code)

3. Examine the following code: [1]

print(int(7.93))

Which **one** of the following would be output?

⬧ 7

⬨ 8

⬨ 7.9

4. State whether each inequality is True or False [6]

(a) 20 < 35

True

(b) 90 < 89

False

(c) “Blue” != “blue”

True

(d) 16 <= 16

True

(e) 20 == “Twenty”

False

(f) int(6.75) >= 7

False – int() strips the decimal part, so int(6.75) = 6

5. Examine the following code: [4]

if score = 100:  
 print(“Full marks!”)  
elif score > 80  
 print(“Excellent!”)  
else if score > 60:  
 print(“Good”)  
else:  
print(“Try again”)

There are 4 errors in the program. Circle the errors and rewrite the correct program below

if score **==** 100:  
 print(“Full marks!”)  
elif score > 80:  
 print(“Excellent!”)  
elif score > 60:  
 print(“Good”)  
else:  
 print(“Try again”)  
  
Double equals for comparison  
Missing colon  
elif, not else if  
Missing indentation

[Total 15 marks]