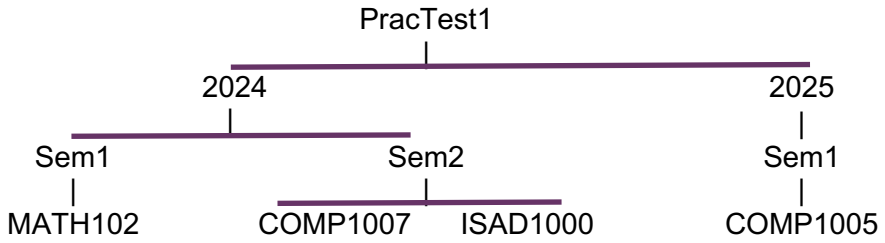
COMP1005/5005 - Practical Test 1

1. (1 mark) Create a directory tree of at least three semesters of your university study plan using the Linux command line, e.g.



2. Type in and modify a Python program: (2 marks)

Navigate to **`PracTest1/2025/Sem1/COMP1005`** type in the code →

Modify the code in **`buzzy.py`** (see on right) to:

1. Correct any errors - get the given code working
2. Print spaces ahead of the bee, increasing till they reach the flower, then decreasing to return to the hive (see sample output on right)
3. Add to code to have the user enter the **distance** and **time**
4. For each user entry, **test that it is in a valid range** (you decide the range). Use a loop to ask them to re-enter the year and continue looping until it is valid. You can assume the user enters an integer.
5. Test your code with valid and invalid entries
6. Search for "Unicode bee python" to find out how to replace the "B" with an emoji bee 🐝
7. Add a tree (or honey pot) at the start of the line, and a flower at the end

3. README and history (1 mark)

1. Record the history of the commands used: **`history > hist.txt`**
2. Copy the **`README`** file from your Prac01 (or Prac00) directory to your **PracTest1** directory.
3. Update the **`README`** file to refer to files and directories you have created, use today's date and to include the **`buzzy.py`** program and a short description of it.

4. Submission and Assessment

- **A tutor must assess your work when complete.**

All of your work must be submitted via Blackboard through the link on the Assessment page. This should be done as a single "zipped" file. To make a zip file to include all the directories and files, go to your FOP directory and type:

`zip -r PracTest1_yourID PracTest1`

```
"""
Student Name: <your name>
Student ID  : <your ID>

buzzy.py: Prac test 1 - flight of the tiny bee

""
distance = 10
time == 20

for t in range(time)
    print("B")
```

```
Enter distance to flower...-4
Out of range, please re-enter...
Enter distance to flower...10
Enter time for simulation...300
Out of range, please re-enter...
Enter time for simulation...30
B
 B
  B
   B
    B
     B
      B
       B
        B
         B
          B
           B
          B
         B
        B
       B
      B
     B
    B
   B
  B
 B  (and so on…)
```