Universida_{de}Vigo

Session no. 4

- Learning goals: Work with simple algorithms including flow control and loops. First functions
 - 1. Write a program that asks for a number and prints the squares of the numbers ranging from one to the given value.
 - 2. Write a program that generates ten random numbers between 1 and 100 and prints the greater of them.
 - 3. Write a program that asks for an integer number and prints its multiplication table.
 - 4. Modify the previous program so that the output is nicely formatted in columns. This can be achieved using the format functionality. To see how this works, try the following program:

```
print("{} y {} are even numbers".format(2,4))
print("{:4d} y {:4d} are even numbers".format(2,4))
print("{:04d} y {:04d} are even numbers".format(2,4))
```

- 5. Write a program that shows whether a given number is prime or not.
- 6. The program included below uses a function to calculate the final mark from three partial marks using three weighting factors.

```
def calculate_mark(test1, test2, lab):
    return test1*0.35 + test2*0.35 + lab*0.3
print(calculate_mark(7.5, 8.5, 7))
print(calculate_mark(4.7, 7.2, 6.8))
```

Modify this program so that the weighting factors are also passed as input arguments to the function.