University College Dublin
MIS3011S Introduction to Programming
Practical 4

Miguel Nicolau

1. Write a Python module containing the following functions:

   `odd(x)`: returns `True` if x is an odd number, `False` otherwise;
   `sqr(x)`: returns x^2;
   `pow(x,y)`: returns x^y;
   `intdiv(x,y)`: returns the integer division of its two arguments (they can be integers or floats);
   `equal(x,y)`: returns `True` if `x` is equal to `y`, `False` otherwise (make it so that `equal("5",5)` returns `True`).

2. Write a Python program that imports your module. It reads two values as program arguments, and prints the following output using your module's functions (e.g. by passing the arguments 13 and 5, such as `python program.py 13 5`):

   ```
   13.0 even? False
   5.0 even? False
   13.0^2 = 169.0
   5.0^2 = 25.0
   13.0^5.0 = 371293.0
   13.0 / 5.0 = 2.0
   13.0 equal to 5.0? False
   ```

   (a) Pass different values as arguments to your program, and check that the output is still correct.