

ACOM1900 – Introduction to Programming Exception handling Worksheet 2007/8

1. Implement a program that divides two numbers. Use “look before you leap” programming to trap the error condition (that the divisor is zero).
2. Repeat the first exercise using an alternative technique.
3. Enter the following at the Python prompt, and make sure you understand the output:

```
>>> import math
>>> math.sqrt (4)
>>> math.sqrt (4.0)
>>> math.sqrt (-1)
>>> math.pow (4, 3)
>>> math.pow (8, 1/3.0)
```

4. Implement a program that prompts the user to enter a number and then displays the square, square root and cube root of the number. Only display the positive roots and display them only for positive input.

Use conditional (`if`) statements.

Note that to use the useful statements you have discovered in the previous task you will need to include the line:

```
import math
```

at the start of your program.

5. Repeat the previous task, but do not use conditional statements.