

Module 15 – Formatting: Activities

1. Create the mortgage program from the lecture.
2. Create the table from the lecture.
3. Create a table for arcsin and arccos for the parameters $x = 0.00, x=0.05, x=0.10, \dots$ up to $x=1.00$. The functions arcsin and arccos are implemented in the Python math module as `math.asin` and `math.acos`. The numbers should line up such that the decimal points are standing above each other. On the right there is a small excerpt.
4. Create a program that writes a file containing a list of values `{x, arcsin(x)}`. The file needs to be formatted so that it can be pasted and copied into Mathematica. With other words, the argument-value pairs are enclosed in curly brackets and separated by commas. The whole array is enclosed by curly brackets. The first and the last line obviously need to be generated separately.

x	arcsin	arccos
0.15	0.151	1.420
0.20	0.201	1.369
0.25	0.253	1.318
0.30	0.305	1.266

```
{  
  {0.15, 0.151},  
  {0.20, 0.201},  
  {0.25, 0.253}  
}
```