Assignment 1 1 - Program

```
#define variables i and n with particular values; data type is taken implicitly from form of value given
i = 10
n = 3.6875
#...alternatively, the following will enforce the number is definitely parsed as a particular type:
#i = int(10)
#n = float(3.6875)

#write both values to screen
print i
print n
```

Assignment 1 1 - Output

```
10
3.6875
```

Assignment 1 2 - Program

```
import numpy #use the library 'numpy' 'NUMerical PYthon', numerous routines for handling mathematics and associated topics

#define coefficients
a = 2.0
b = 3.0
c = 2.0

#calculate discriminant
discrim = b**2 - 4.0 * a * c

x_plus = (-b + numpy.sqrt(discrim))/(2.0*a)
x_minus = (-b - numpy.sqrt(discrim))/(2.0*a)

#write to screen
print 'x_plus', x_plus
print 'x_minus', x_minus
```

Assignment 1 2 - Output

```
x_plus 0.5
x_minus -2.0
```

```
x_plus nan
x_minus nan
```