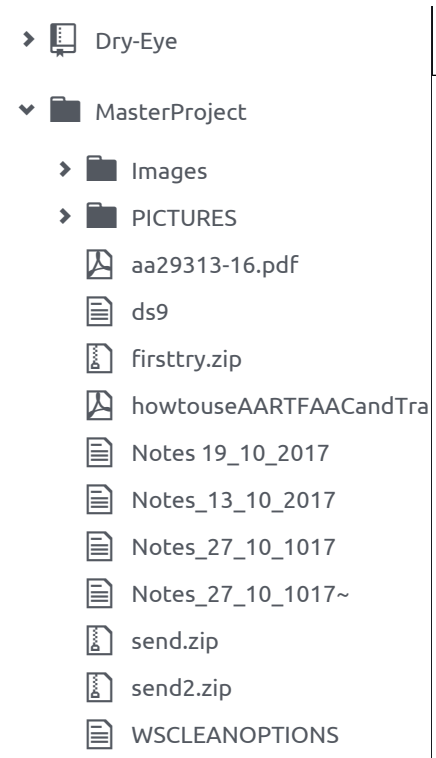

exc1.py | Settings | exc2.py | exc3turnin.py

```
31  # Function used to loop over the single precision a
32  def Loopingsfloat32(a,narray,r):
33      for n in np.nditer([narray],op_flags=["readwrit
34          n[...] = Frfloat32(n,a,r)
35
36  # Function used to properly make up the xarray
37  def xarray(narray,r):
38      for n in np.nditer([narray],op_flags=["readwrit
39          n[...] = (r/n)
40
41  # Get the values for the loop function for the diff
42  for i in nsteps:
43      solution = 0
44      a= 100
45      asteps=[]
46      for n in range(1,i+1):
47          solution = Frloop(i,a,r)
48          a = solution
49          asteps.append(a)
50      astepstotal.append(asteps)
51      sollist.append(solution)
52
53  for i in range(len(sollist)):
54      print "For an amount of steps of %0.f we get a
55
56  # Get values for the exp function for the different
57  exactsolution = []
58  for i in nsteps:
59      a = 100
60      exactsolution.append(Fr(i,a,r))
61
62  for i in range(len(exactsolution)):
63      print "For an amount of steps of %0.f we get a
64
65  # SINGLE VS DOUBLE PRECISION
66  xarray(narrayx,r)
67
68  a = 100
69  Loopings(a,narray,r)
70
71  r = np.float32(r)
72  a = 100
73  a = np.float32(a)
```

Numerical_Algorithms/Homework1/exc3.py