

Program VIIe.2.1. FORTRAN Listing of the Euler Method

```
implicit real*8(a-h,o-z)
n = 0
dx = 0.01
x = 0.0
y = 0.5
write(*,2)
1  continue
  n = n + 1
  x = x + dx
  fofx = 2 * y + x*x
  y = y + fofx * dx
  if(n.eq.10) write (*,3) x, fofx, y
  if(n.eq.10) n = 0
  if(x.lt.0.6) go to 1
2  format(///,3x,'x',10x,'f(x)',13x,'y')
3  format(f5.2,5x,f10.7,5x,f10.7)
stop
end
```