Code \PageIndex{1\}) (Python):

```python3
import numpy as np
from scipy.integrate import odeint
import matplotlib.pyplot as plt

def rxn1st(C,t,*k):
    r1=k[0]*C[0]  # k[0]*(concentration of A)
    dAdt=-r1     # rate of change of A decreased by forward reaction and increased by reverse reaction
    dBdt=r1      # rate of change of B increased by forward reaction and decreased by reverse reaction
    return(dAdt,dBdt)

t=np.linspace(0,10,101) # the first number is the beginning point, the second number is the end, and the third is the number of points.
C0=[1,0] # initial concentrations of A and B
k1=1
k2=0
k=[k1]
C=odeint(rxn1st,C0,t,(k1,k2))
cA=C[:,0] # define cA to give the concentration from the first (zeroth) column of the C array
cB=C[:,1] # define cB to give the concentration from the second column of the C array
```