Exercise 4

```
a = 1;
b = 3;
N = 50;
h = (b-a)/(N-1);
x = a-h;
approxIntegral = 0;
for k = 1:N
    x = x+h;

    if k==1 || k==N
        approxIntegral = approxIntegral + (h/2)*exp(x);
    else
        approxIntegral = approxIntegral + h*exp(x);
    end
end
approxIntegral
x

%Question 3) Yes the value is roughly 1.7200 very close to e-1

%Question 4) x numerical value is 1.
%Question 5) The loop parameter is 1:N, where N is 10, so the Loop is run for 10 i
%Question 6) The same as the answer above it is run for 10 times.

%Question 7) approxIntegral = 1.7183


%Question 8) approxIntegral = 17.3697
```

```
approxIntegral =

   17.3697


x =

    3.0000
```

Published with MATLAB® R2014a