```
In[65]:= Euler[a0_, b0_, h0_, f_, alpha_] :=
        Module[\{a = N[a0], b = N[b0], h = N[h0], n, x\},\
           n = (b - a) / h;
           y[0] = alpha;
           For[i = 0, i \le n, i++,
          x[i] = a + h * i;
          y[i + 1] = y[i] + h * f[x[i], y[i]];
          Print["Value at x[", i, "]=", x[i], "is ", y[i]];
          ];
          ];
           f[x_{, y_{, 1}} := y * x^3 - 1.5 * y;
           Euler[0, 2, 0.5, f, 1]
       Value at x[0]=0.is 1
       Value at x[1]=0.5is 0.25
       Value at x[2]=1.is 0.078125
       Value at x[3]=1.5is 0.0585938
       Value at x[4]=2.is 0.113525
           f[x_{, y_{, i}} := x^2 + y^2;
In[68]:=
           Euler[0, 0.3, 0.1, f, 1]
       Value at x[0]=0. is 1
       Value at x[1]=0.1is 1.1
       Value at x[2]=0.2is 1.222
       Value at x[3]=0.3is 1.37533
In[70]:=
           f[x_{, y_{, i}} := 3 * x + 2 * y;
           Euler[0, 0.3, 0.1, f, 1]
       Value at x[0]=0.is 1
       Value at x[1]=0.1is 1.2
       Value at x[2]=0.2is 1.47
       Value at x[3]=0.3is 1.824
           f[x_{, y_{, i}} := Log[x + y];
In[74]:=
           Euler[1.2, 1.4, 0.2, f, 2]
       Value at x[0]=1.2is 2
       Value at x[1]=1.4is 2.23263
```