```
In[43]:= Trapezoidal[a0_, b0_] :=
       Module[{},
        a = a0;
        b = b0;
        h = (b - a);
        TI = (h/2)*(f[a] + f[b]);
        Print["Integration by Trapezoidal Rule is : ", N[TI]];
        DI = Integrate[f[x], {x, a, b}];
        Print["Integration by Direct : ", N[DI]];
        Print["Error : ", N[TI - DI]];
       ];
      f[x_] := 1/(1+x^2);
      Trapezoidal[0, 5];
      Integration by Trapezoidal Rule is : 2.59615
      Integration by Direct : 1.3734
      Error : 1.22275
In[46]:= f[x_] := 1/(1+x);
      Trapezoidal[0, 1];
      Integration by Trapezoidal Rule is : 0.75
      Integration by Direct : 0.693147
      Error: 0.0568528
In[48]:= f[x_] := 2^x;
      Trapezoidal[0, 4];
      Integration by Trapezoidal Rule is: 34.
      Integration by Direct: 21.6404
      Error: 12.3596
```