```
In[35]:= Simpson[a0_, b0_] :=
       Module[{},
        a = a0;
        b = b0;
        h = (b - a)/2;
        SI = (h/3)*(f[a]+4*f[a+h]+f[a+2*h]);
        Print["Integration by Trapezoidal Rule is : ", N[SI]];
        DI = Integrate[f[x], {x, a, b}];
        Print["Integration by Direct : ", N[DI]];
        Print["Error : ", N[SI - DI]];
       ];
      f[x_] := x^5 + 2 * x^4 + x + 1;
      Simpson[1, 2];
      Integration by Trapezoidal Rule is : 25.4792
      Integration by Direct : 25.4
      Error: 0.0791667
ln[38]:= f[x_] := 1/(1+x^2);
      Simpson[0, 5];
      Integration by Trapezoidal Rule is : 1.32515
      Integration by Direct : 1.3734
      Error : -0.048246
ln[24]:= f[x_] := 1/(1+x);
      Simpson[0, 1];
      Integration by Trapezoidal Rule is: 0.694444
      Integration by Direct : 0.693147
      Error: 0.00129726
ln[28]:= f[x_] := 2^x;
      Simpson[0, 4];
      Integration by Trapezoidal Rule is: 22.
      Integration by Direct: 21.6404
      Error: 0.359574
```