```
SimpsonR[a0_, b0_, m_, f_] :=
       Module[{a = a0, b = b0, h, ApproxIntegral , n},
       If[Mod[m, 2] = 0, Print["m should be even positive Integer"];
            Return[];];
       h = (b - a) / m;
       n = m/2;
       ApproxIntegral = ((h * (f[a] + f[b])) / 3) +
              ((2*h*(Sum[f[a+2*h*k], \{k, n-1\}]))/3)+((4*h(Sum[f[a+(2*k-1)h], \{k, n\}]))/3);
       Return[ApproxIntegral];];
In[15]:=
       f[x_{-}] := 1/(1+x);
       Print["f(x)= ", f[x]];
       N[SimpsonR[0, 1, 2, f]]
       0.694444
Out[17]=
       N[SimpsonR[0, 1, 4, f]]
In[18]:=
       0.693254
Out[18]=
       N[SimpsonR[0, 1, 8, f]]
In[19]:=
       0.693155
Out[19]=
       N[SimpsonR[0, 1, 16, f]]
In[20]:=
       0.693148
Out[20]=
       ActualValue = Integrate [1/(1+x), \{x, 0, 1\}];
       N[ActualValue]
       0.693147
Out[22]=
```