$In[\bullet]:=$ $A[n\_] = \left(\dfrac{1}{2}\right)^n$

$In[\bullet]:=$ $B[k\_] = \displaystyle\sum_{n=1}^{k} A[n]$

Plot of the succession :

ListPlot$\left[\text{Table}\left[A[n], \{n, 1, 10\}\right], \text{Prolog} \to \text{AbsolutePointSize}[5]\right]$

$Out[\bullet]=$
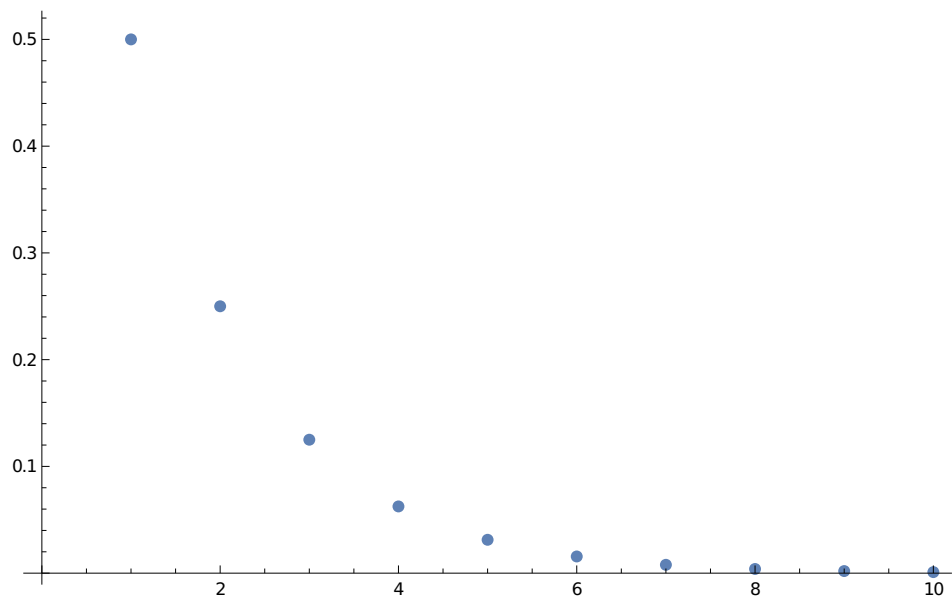
Plot of the partial sequences :

$In[\bullet]:=$ ListPlot$\left[\text{Table}\left[B[n], \{n, 1, 10\}\right], \text{Prolog} \to \text{AbsolutePointSize}[5]\right]$

$Out[\bullet]=$