 four decimal place accuracy. Use the error bound formula to recommend the number of panel $n$.
(ii) Find the Trapezium rule approximation of the integral with $\mathrm{n}=2$ and compare with the exact value. Does this result contradict your part (a) answer?
(b) The initial-value problem is given by

$$
\frac{d y}{d x}=x+\sqrt{y}, y(0)=1 .
$$

Use Runge-Kutta's method with step size $h=0.1$ to find the value of $y(0.1)$ correct to 3 decimal places.

