Aim: Become proficient in looping and numerical calculations. For each of the following, calculate S

1. S = 1+2+3+4+…+1000
2. S = 1+1/2+1/3+1/4+….. + 1/1000
3. S = 1+2^2+3^2+4^2+…+1000^2
4. S = 1+1/2^3+1/3^3+ … + 1/30^3
5. S = 1-2+3-4+5-6+… +99 – 100
6. S = 1-1/2+1/3-1/4+1/5-1/6+…. +1/99-1/100

For each, print the time it takes for each calculation.