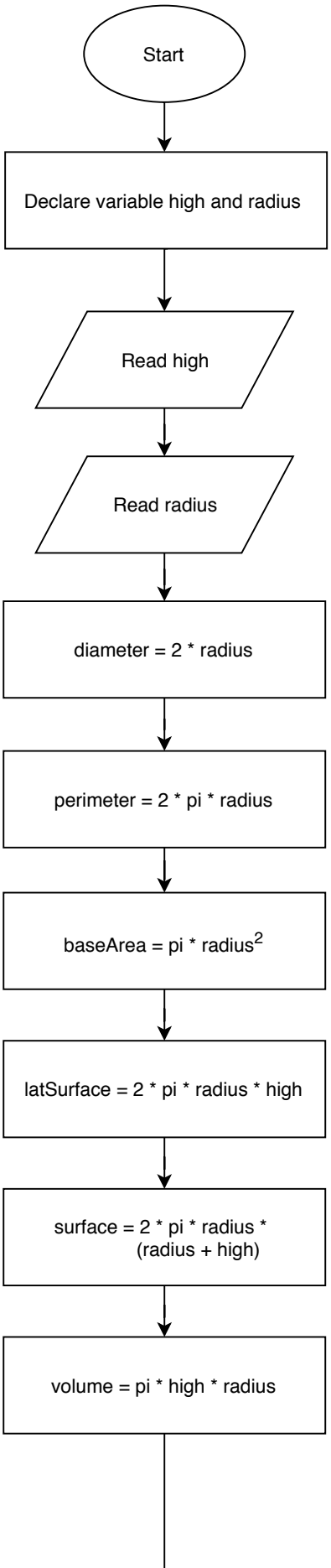
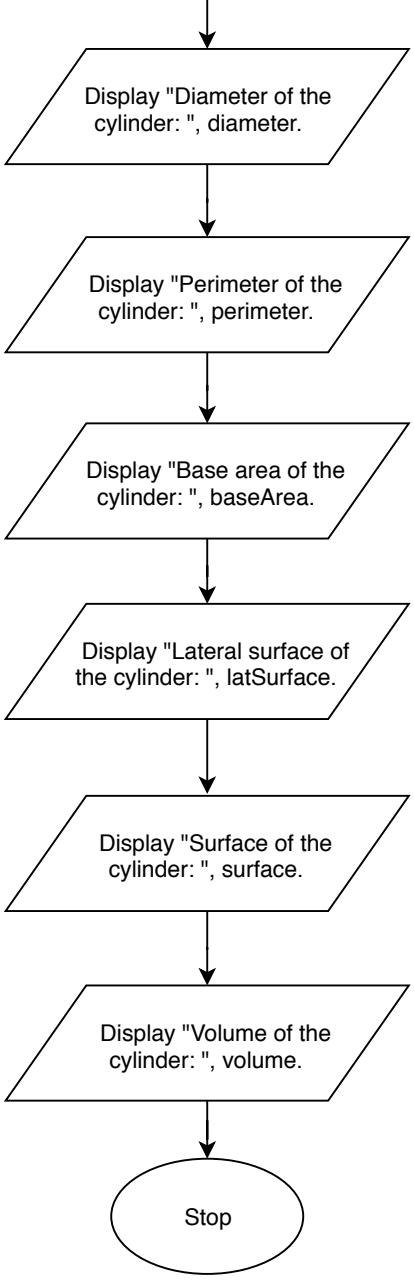
Algorithm

1. Start
2. Read high of cylinder, store in high.
3. Read radius of cylinder, store in radius.
4. Compute the diameter (= 2 * radius), store in diameter.
5. Compute the perimeter (= 2 * pi * radius), store in perimeter.
6. Compute the base area (= pi * radius^2), store in baseArea.
7. Compute the lateral surface (= 2 * pi * radius * high), store in latSurface.
8. Compute the surface (= 2 * pi * radius * (radius + high)), store in surface.
9. Compute the volume (= pi * high * radius), store in volume.
10. Print "Diameter of the cylinder: ", diameter.
11. Print "Perimeter of the cylinder: ", perimeter.
12. Print "Base Area of the cylinder: ", baseArea.
13. Print "Lateral surface of the cylinder: ", latSurface.
14. Print "Surface of the cylinder: ", surface.
15. Print "Volume of the cylinder: ", volume.
16. Stop.

Flowchart




Display "Diameter of the cylinder: ", diameter.
Display "Perimeter of the cylinder: ", perimeter.
Display "Base area of the cylinder: ", baseArea.
Display "Lateral surface of the cylinder: ", latSurface.
Display "Surface of the cylinder: ", surface.
Display "Volume of the cylinder: ", volume.
Stop