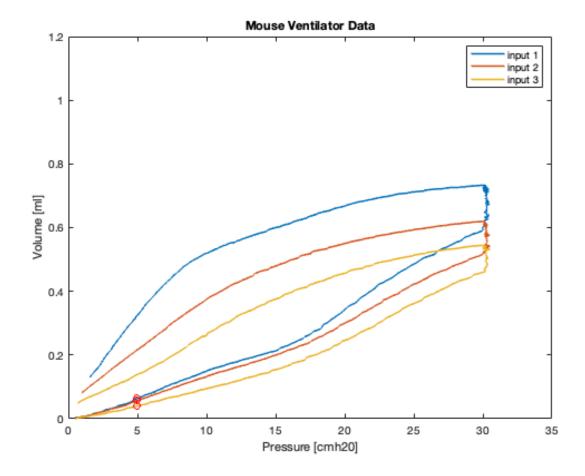
```
the_file_name = "MousePVloops.xlsx";
D = get data(the file name);
PV_data = string(6);
for n = 1:3
    disp(["enter input number ", n]);
    input_data(n) = input(":");
end
for n = 1:6
   if (mod(n, 2) == 1)
       PV_{data(n)} = ['P' num2str(input_data((n + 1) / 2))];
   else
       PV_data(n) = ['V' num2str(input_data(n / 2))];
   end
end
응 }
PV data = ["P2", "V2", "P6", "V6", "P18", "V18"];
for n = 1:3
    closest_{to} = Pat5(D.(PV_{data}((n * 2) - 1)));
    index(n) = find(D.(PV_data((n * 2) - 1)) == closest_to_five(n));
end
for n = 1:3
    figure(1)
    plot(D.(PV_data((n * 2) -1)), D.(PV_data((n * 2))), LineWidth=1.5)
    hold on
end
for n = 1:3
    figure(1)
    plot(closest_to_five(n), D.(PV_data(n * 2))(index(n)) , 'ro')
    hold on
end
xlim([0 35])
ylim([0 1.2])
xlabel("Pressure [cmh20]")
ylabel("Volume [ml]")
title("Mouse Ventilator Data")
legend("input 1", "input 2", "input 3");
function [output] = get_data(the_file_name)
   output = readtable(the_file_name) ;
end
```



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