```
clear;
close all;
clc;
%This program computes the Estimated Blood Volume (EBV) and acceptable
%Average Blood Loss (ABL) of a female patient.

%Variables
%W--------Weight of patient (kg)
%ABV------Average Blood Loss (ml/kg)
%HCTi-----Initial Hematocrit in percent
%HCTf-----Final Hematocrit in percent
%EBV------Estimated Blood Volume
%ABL------Average Blood Loss

%Variables are assigned to their respective values
W=50;
ABV=65;
HCTi=45;
HCTf=30;

%EBV and ABL are computed here.
EBV=W*ABV;
ABL=EBV*((HCTi-HCTf)/HCTi);

%The computed results are then output into strings
disp(['Patient: adult female weighing ',num2str(W),'kg with intial hematocrit ',nu
disp(['Average blood volume of an adult female is ',num2str(ABV),'ml']);
disp(['Final allowable hematocrit is ',num2str(HCTf),'%']);
disp(['Estimated EBV = ',num2str(EBV),' liters.']);
disp(['Estimated ABL = ',num2str(ABL),' liters without necesssary blood transfusio
```

```
Patient: adult female weighing 50kg with intial hematocrit 45%
Average blood volume of an adult female is 65ml
Final allowable hematocrit is 30%
Estimated EBV = 3250 liters.
Estimated ABL = 1083.3333 liters without necesssary blood transfusion.
```

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