The code snippet corresponding to BP parameter

BP=str2num(get(handles.BP1,'String'))

R7=0;R8=0;R9=0;R10=0;R11=0;

if BP<=70

bp\_Vlow=1;

end

if BP>70 && BP<=80

bp\_Vlow=(80-BP)/10;

end

if BP>80

bp\_Vlow=0

end

if BP<=75

bp\_low=1

end

if BP>75 && BP<=90

bp\_low=(BP-75)/15

elseif BP>=90 && BP<=105

bp\_low=(105-BP)/15

else bp\_low=0

end

if BP==130

bp\_normal=1

end

if 100<=BP && BP<130

bp\_normal=(BP-100)/30

end

if 130<=BP && BP<=160

bp\_normal=(160-BP)/30

end

if BP>160

bp\_normal=0

end

if BP<100

bp\_normal=0

end

if 155<=BP && BP<=165

bp\_high=(BP-155)/10

end

if 165<=BP && BP<=175

bp\_high=(175-BP)/10

end

if BP<=155

bp\_high=0

end

if BP>=175

bp\_high=0

end

if BP>=180

bp\_Vhigh=1

end

if 172<=BP && BP<=180

bp\_Vhigh=(BP-172)/8

end

if BP<172

bp\_Vhigh=0

end

if BP<=70

R7=4;

elseif BP<=80 && BP>=70

R7=(.75)\*bp\_Vlow+3;

else R7=0;

end

if BP<=75 && BP>=90

R8=2+bp\_low;

elseif 90<=BP && BP<=105

R8=4-bp\_low;

else R8=0;

end

if 100<=BP && BP<=130

R9=0.25;

elseif 130<=BP && BP<=160

R9=1-.75\*bp\_normal;

else R9=0;

end

if 155<=BP && BP<=165

R10 = bp\_high;

elseif 165<=BP && BP<=175

R10= 2-bp\_high;

else R10=0;

end

if 172<=BP && BP<=180

R11= bp\_Vhigh+1;

elseif BP>=180

R11=2;

else R11=0;

end