

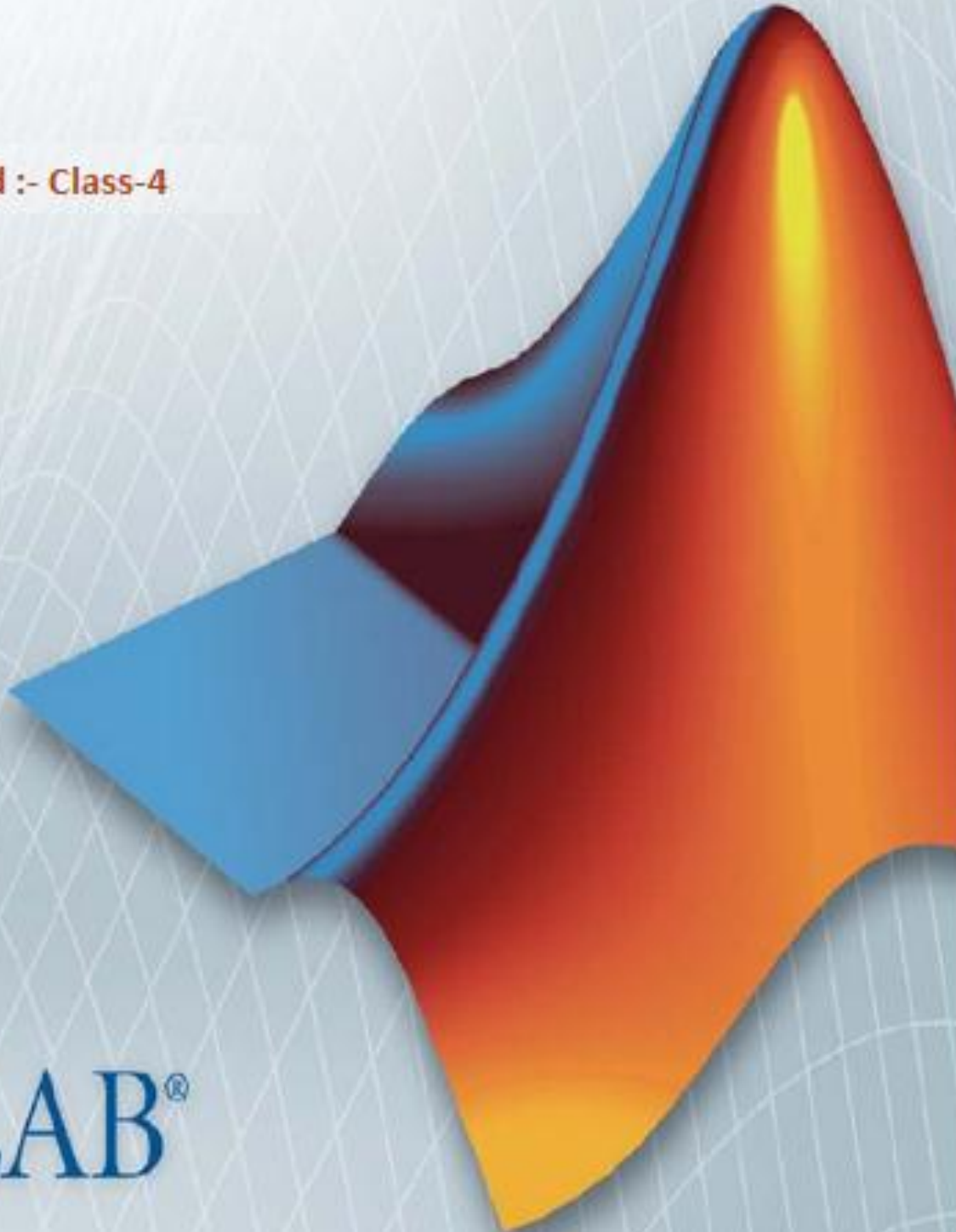


SPECTRUM SOLUTIONS

Puducherry-07

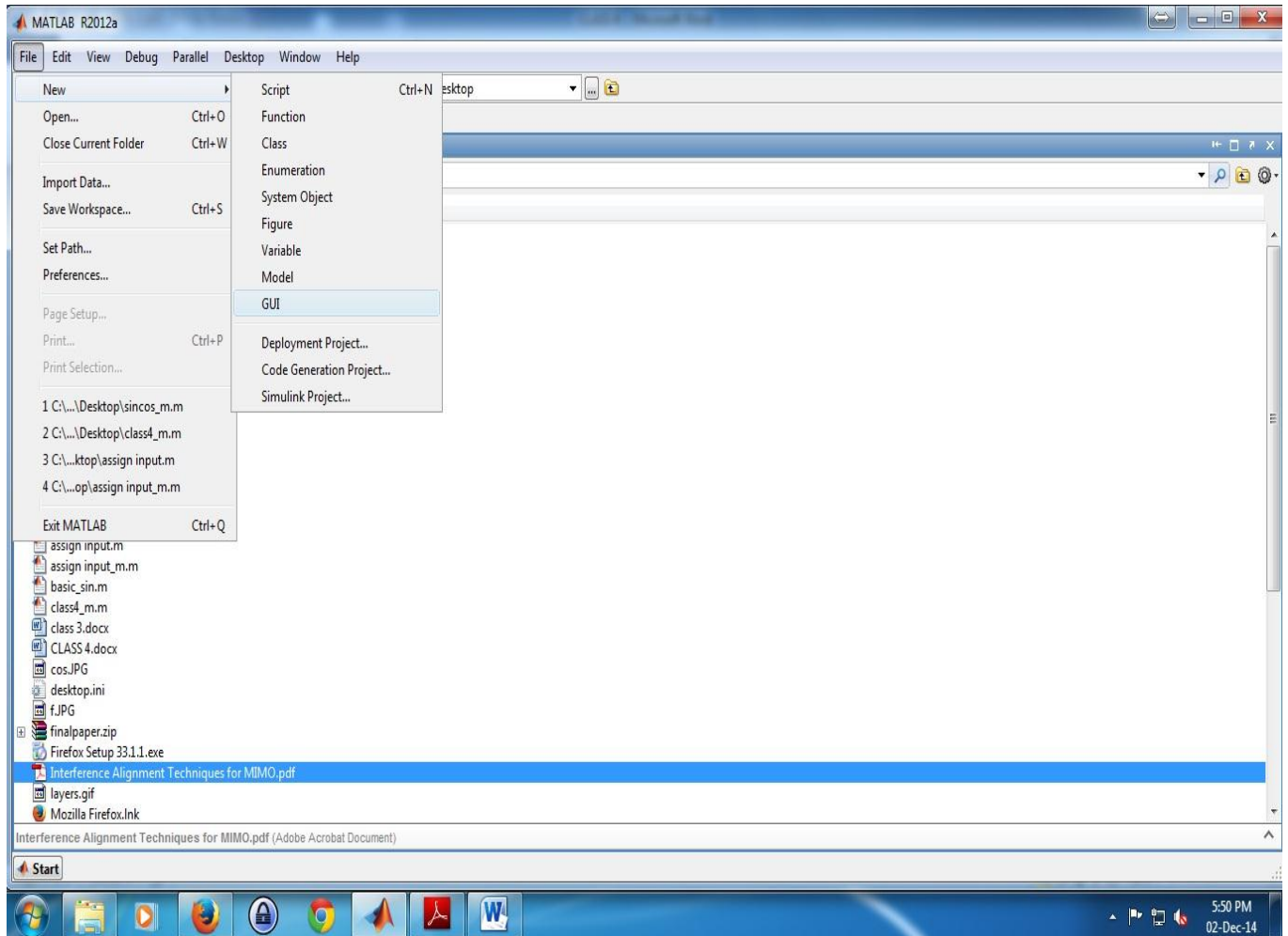
Matlab Command :- Class-4

MATLAB®

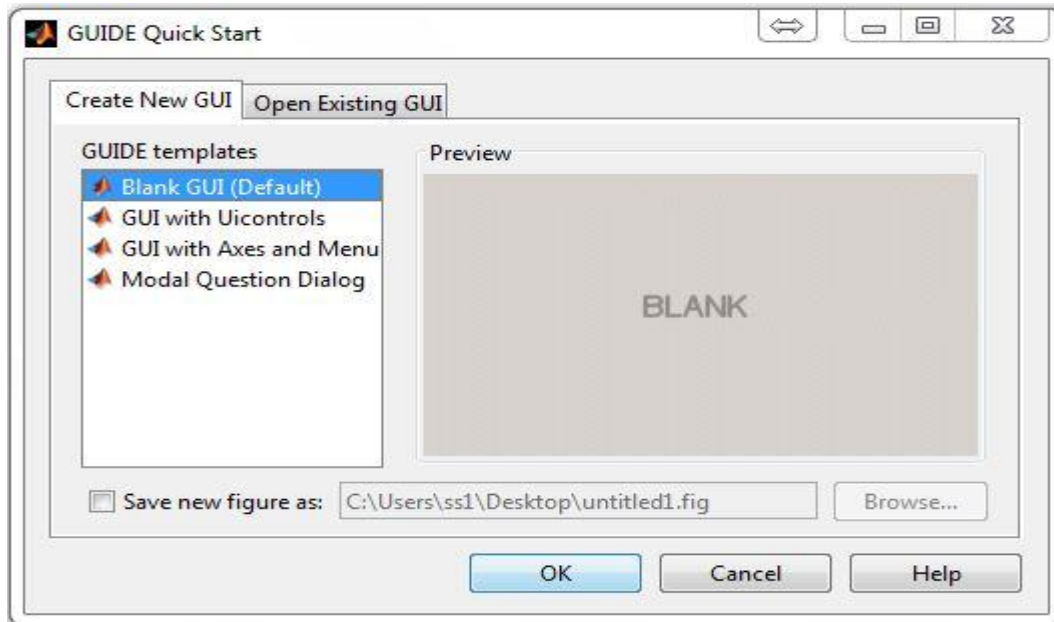


Matlab -Graphical User Interface

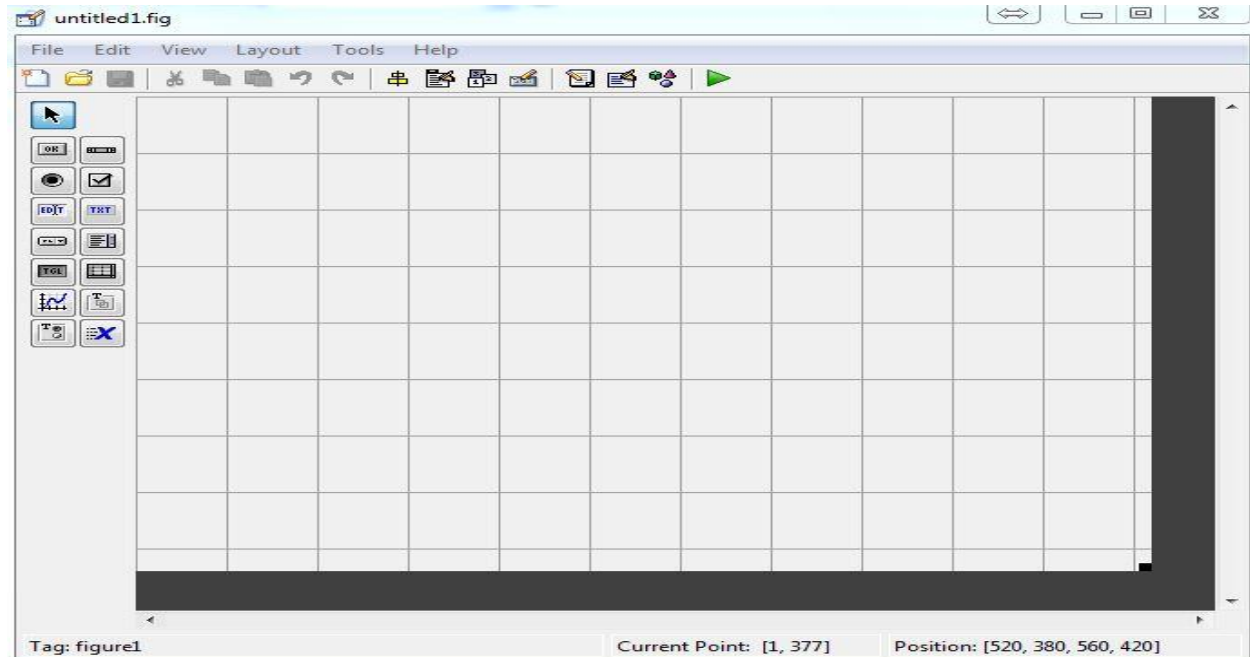
Step-1: Create New GUI Window



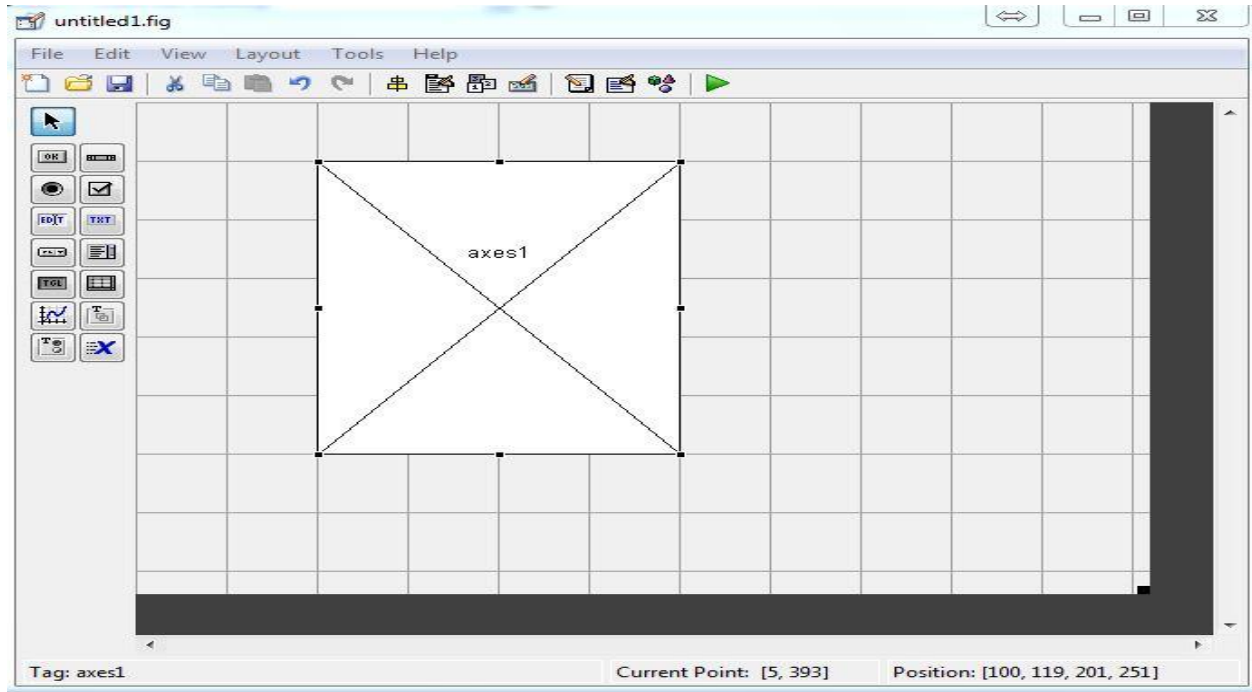
Step-2: Create Blank GUI



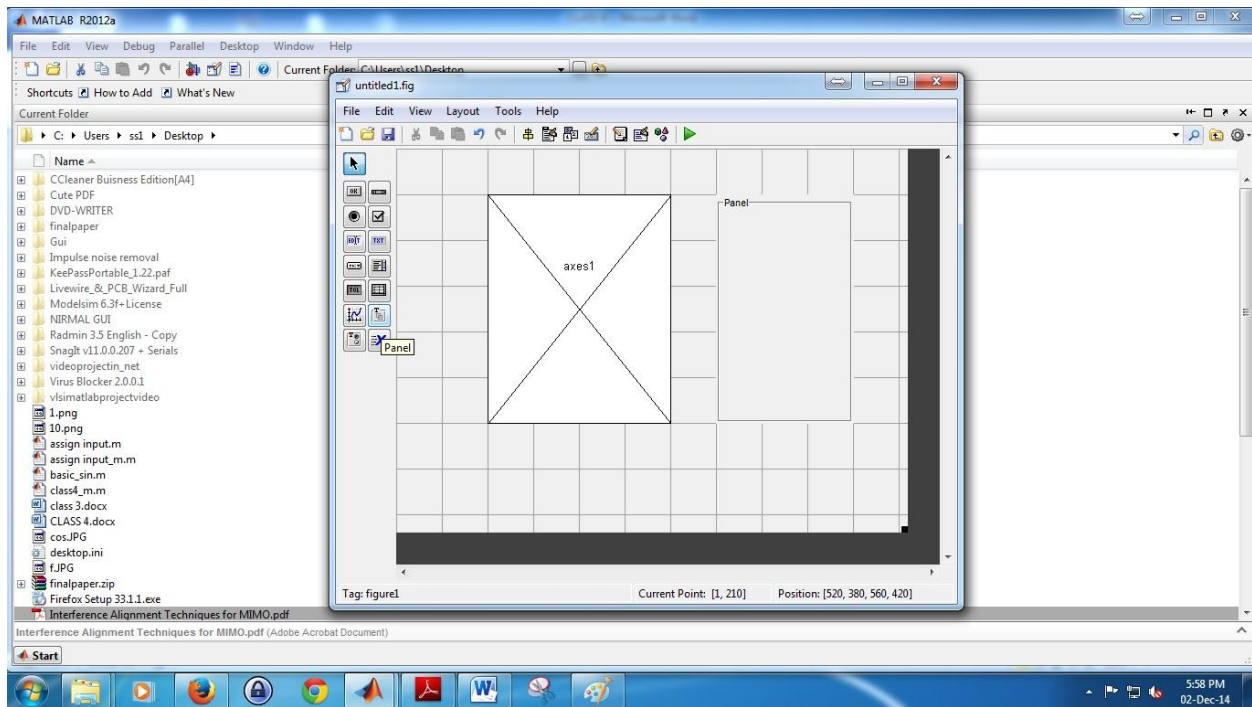
Step-3: GUI Window



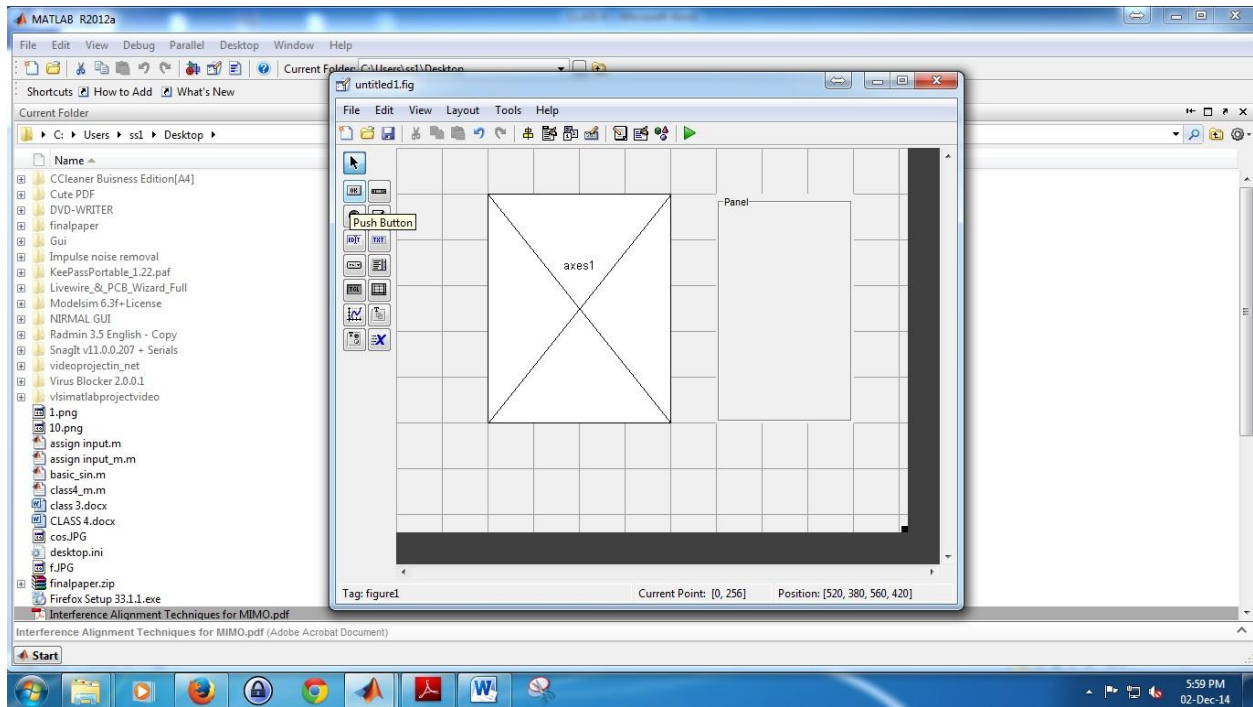
Step-4: Create Axis in GUI Window



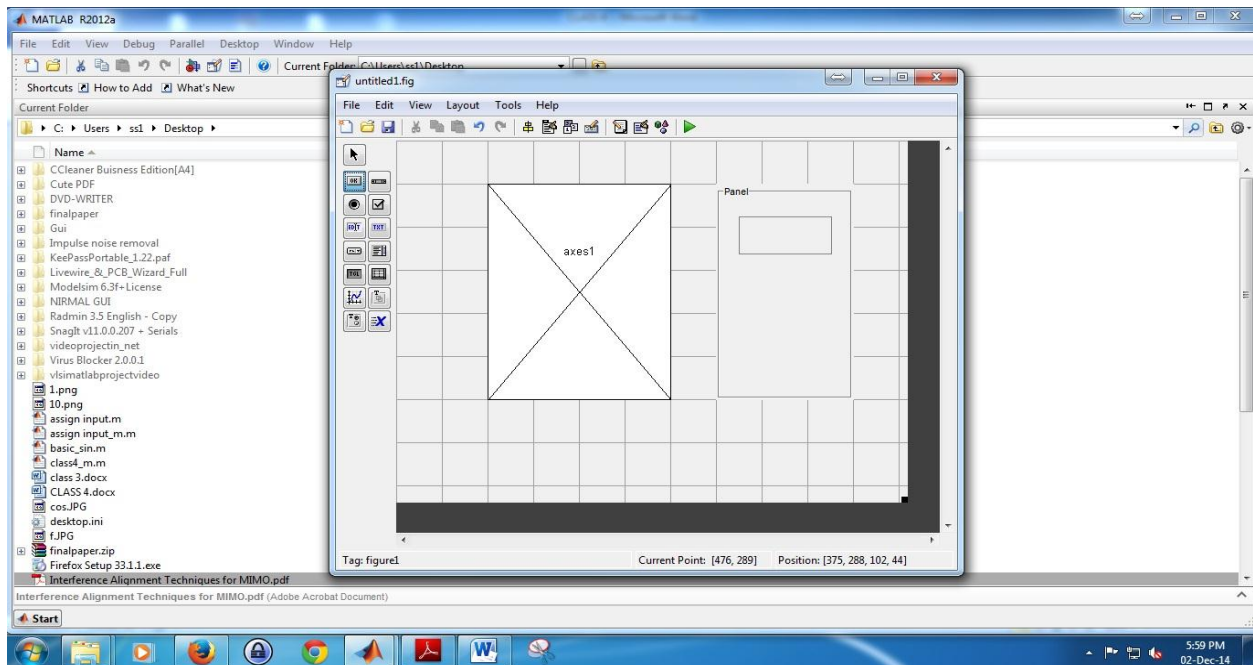
Step-5: Create Panel for Switches



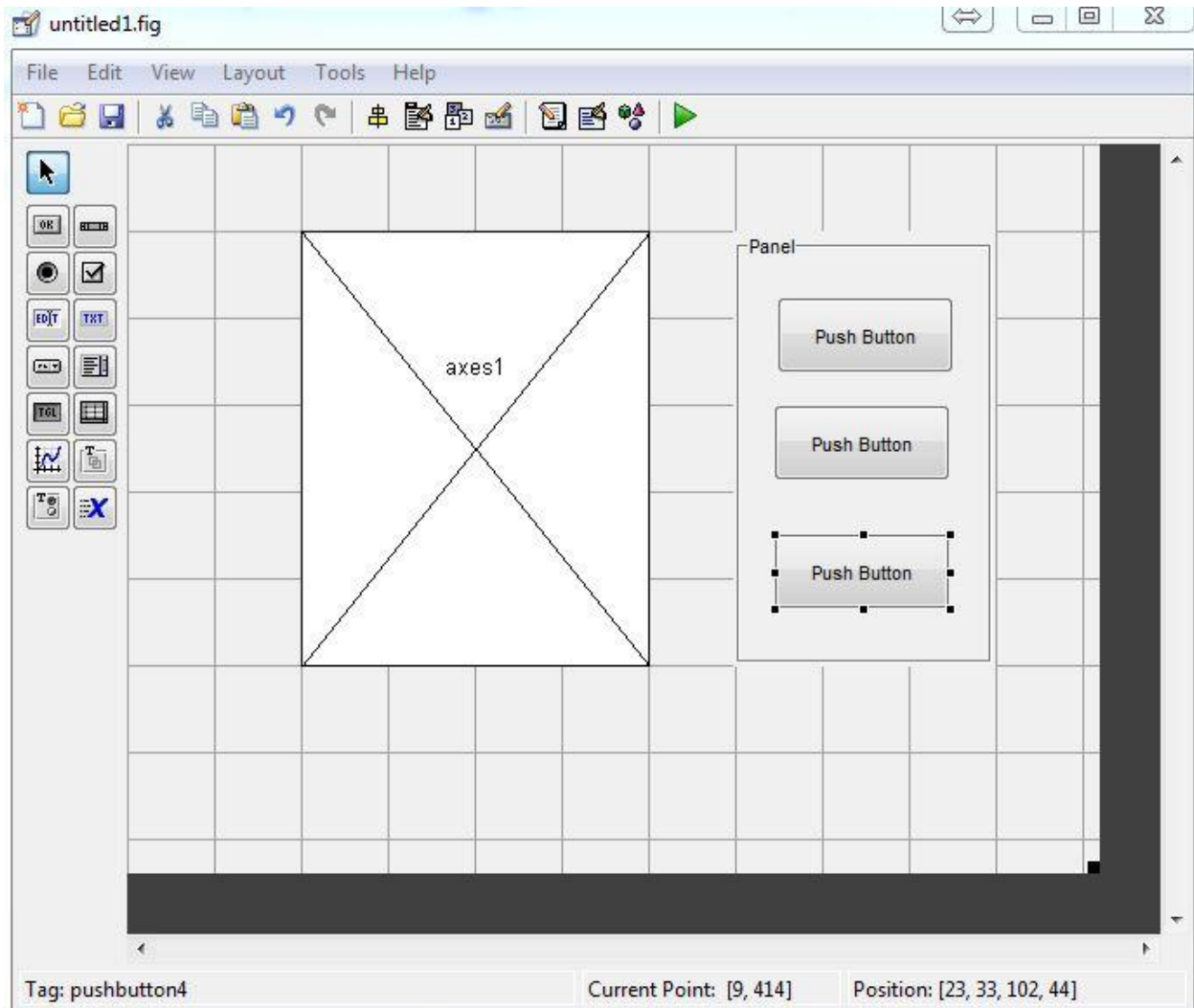
Step-6: To Create Buttons for Getting Concern O/P



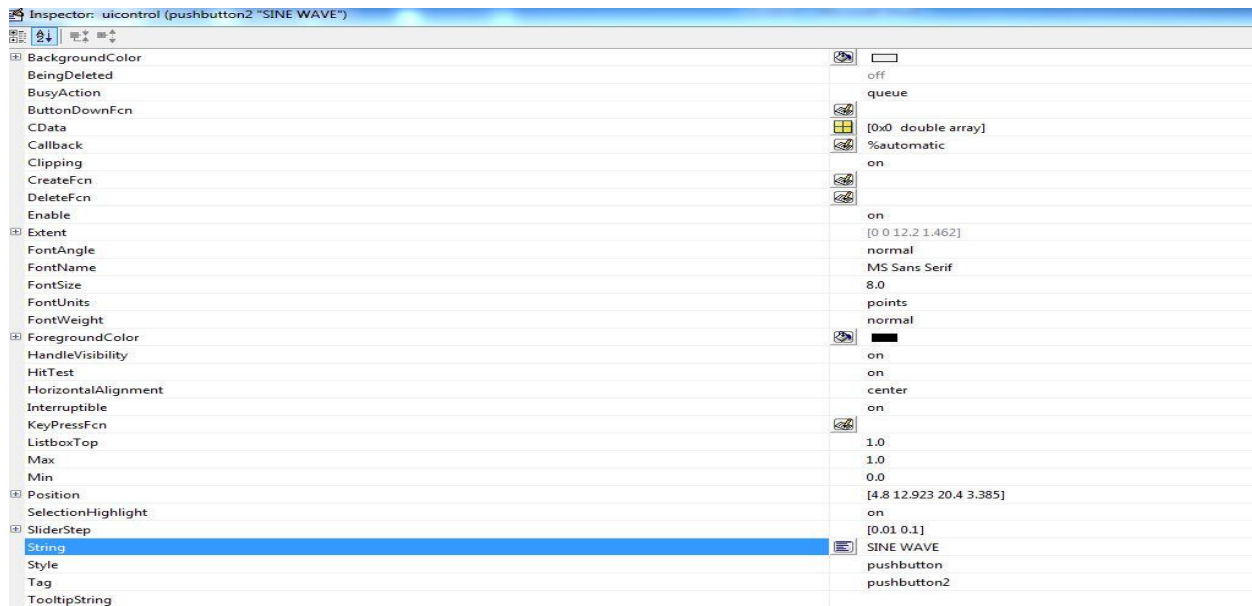
Step-7: Placement of Buttons In Panel



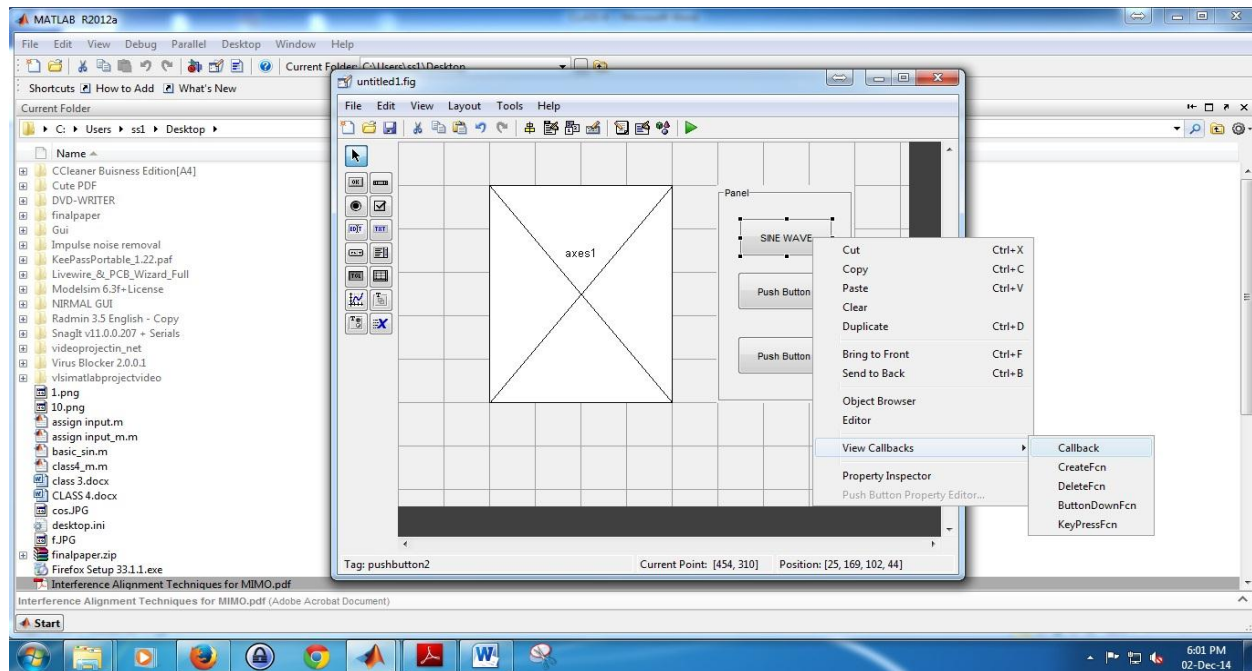
Step-8: After Placing the Buttons Double Click the Buttons to Edit It



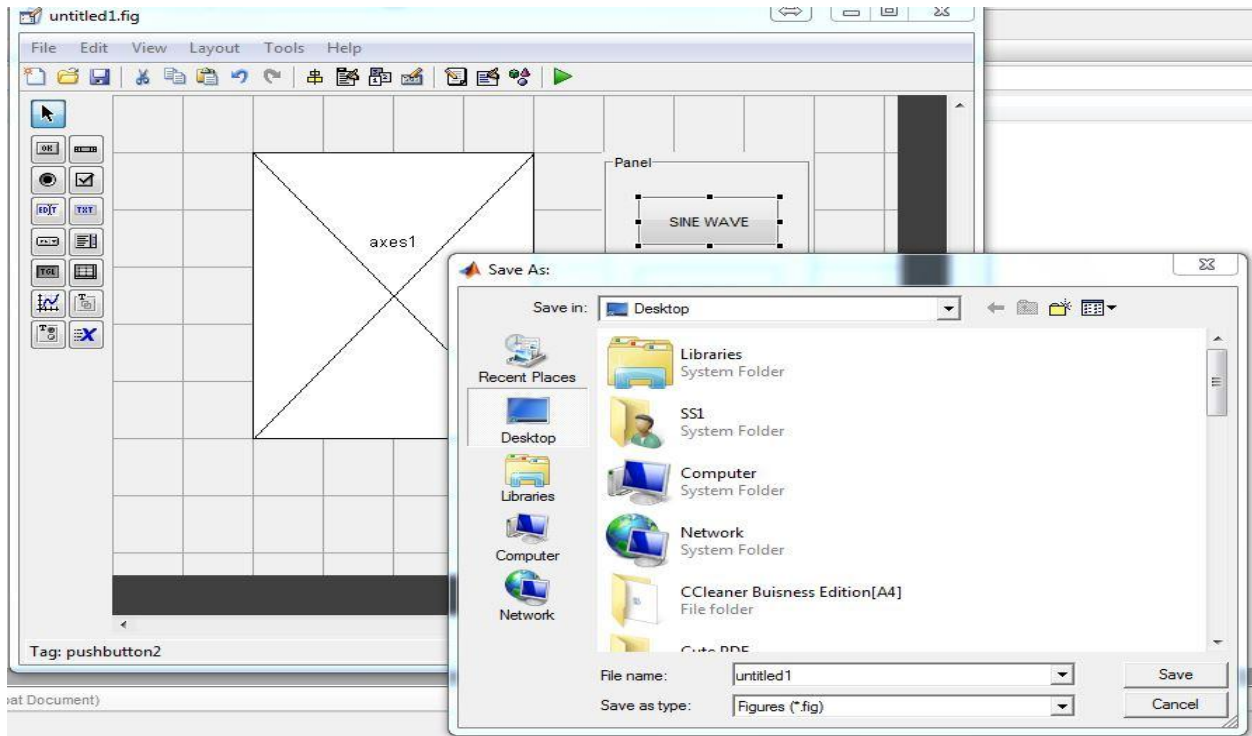
Step-9: Editing the Buttons



Step-10: Assigning The Programs To Buttons



Step-11: Save the File



Step-12: Writing Programs to The Corresponding Buttons

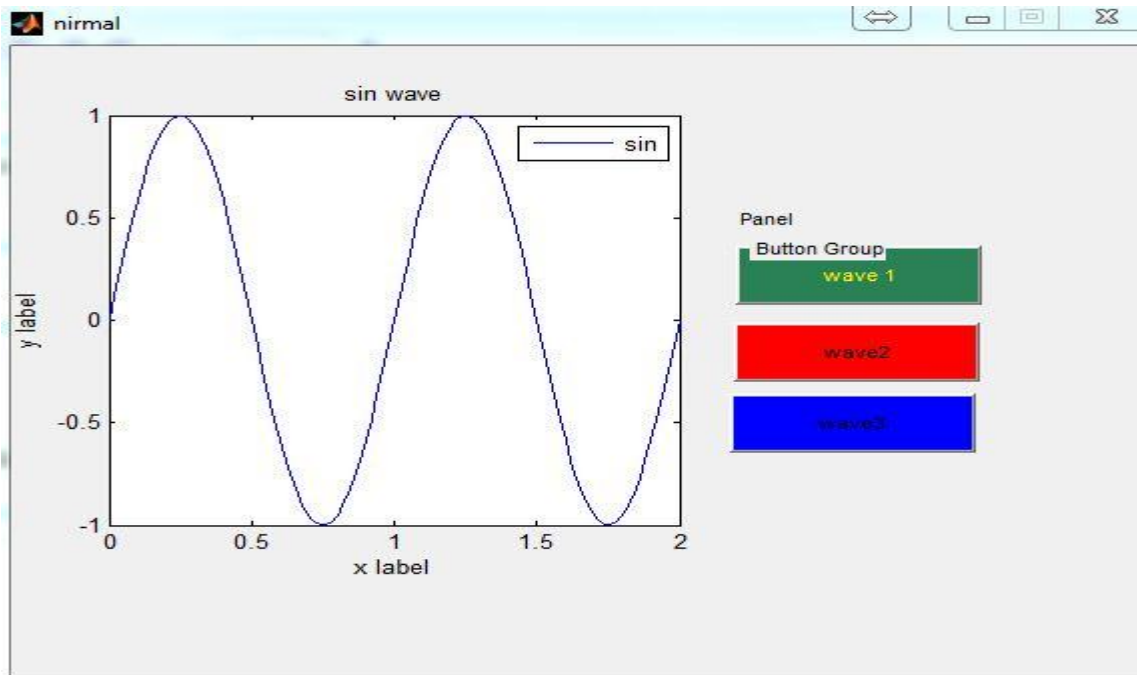
```
% --- Executes on button press in pushbutton3.
function pushbutton3_Callback(hObject, eventdata, handles)
% hObject      handle to pushbutton3 (see GCBO)
% eventdata    reserved - to be defined in a future version of MATLAB
% handles      structure with handles and user data (see GUIDATA)
a=0:0.02:2;
b=sin(2*pi*a);
c=cos(2*pi*a);
d=b+c;
plot(a,d)
xlabel('x label')
ylabel('y label')
legend('sin+cosine')
title('sin+cosine wave')

% --- Executes on button press in pushbutton1.
function pushbutton1_Callback(hObject, eventdata, handles)
% hObject      handle to pushbutton1 (see GCBO)
% eventdata    reserved - to be defined in a future version of MATLAB
% handles      structure with handles and user data (see GUIDATA)
a=0:0.02:2;
b=sin(2*pi*a);
plot(a,b)
xlabel('x label')
ylabel('y label')
legend('sin')
title('sin wave')

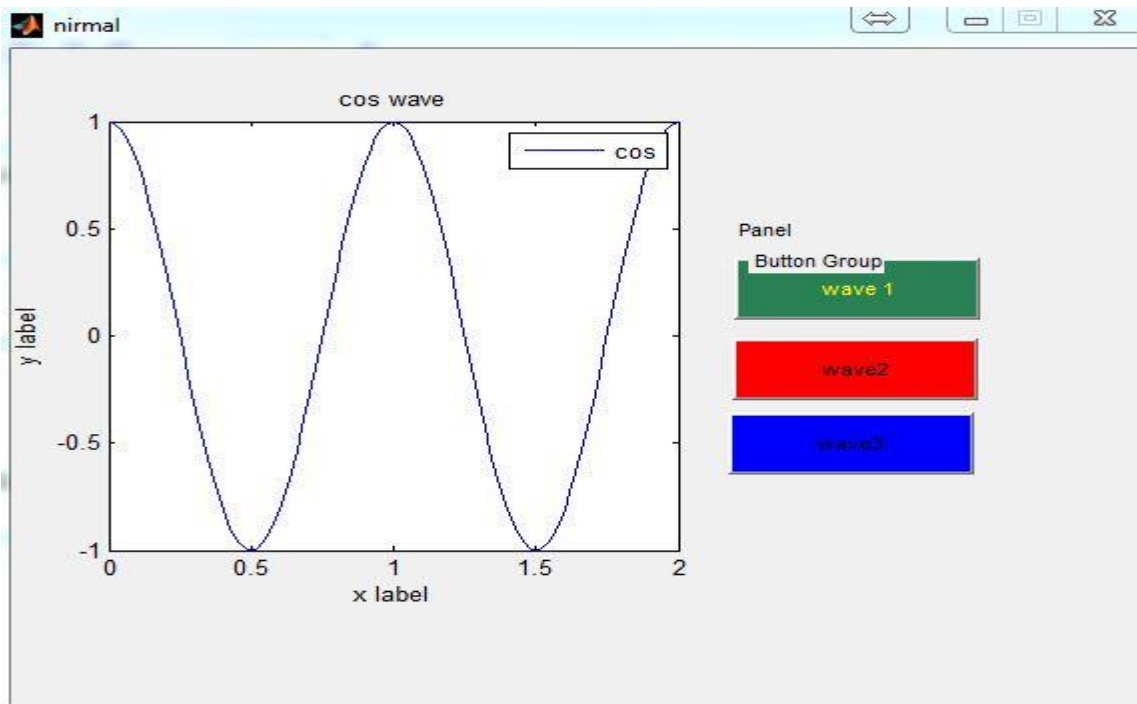
% --- Executes on button press in pushbutton2.
function pushbutton2_Callback(hObject, eventdata, handles)
% hObject      handle to pushbutton2 (see GCBO)
% eventdata    reserved - to be defined in a future version of MATLAB
% handles      structure with handles and user data (see GUIDATA)
a=0:0.02:2;
c=cos(2*pi*a);
plot(a,c)
xlabel('x label')
ylabel('y label')
legend('cos')
title('cos wave')
```

Step-13: Outputs

Sine Wave



COS Wave



SINE +COS Wave

