```
function varargout = myAdder(varargin)
% MYADDER M-file for myAdder.fig
%      MYADDER, by itself, creates a new MYADDER or raises the existing
%      singleton*.
%
%      H = MYADDER returns the handle to a new MYADDER or the handle to
%      the existing singleton*.
%
%      MYADDER('CALLBACK',hObject,eventData,handles,...) calls the local
%      function named CALLBACK in MYADDER.M with the given input arguments.
%
%      MYADDER('Property','Value',...) creates a new MYADDER or raises the
%      existing singleton*.  Starting from the left, property value pairs are
%      applied to the GUI before myAdder_OpeningFunction gets called.  An
%      unrecognized property name or invalid value makes property application
%      stop.  All inputs are passed to myAdder_OpeningFcn via varargin.
%
%      *See GUI Options on GUIDE's Tools menu.  Choose "GUI allows only one
%      instance to run (singleton)".
%
% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help myAdder

% Last Modified by GUIDE v2.5 22-Oct-2007 16:49:52

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                   'gui_Singleton',  gui_Singleton, ...
                   'gui_OpeningFcn', @myAdder_OpeningFcn, ...
                   'gui_OutputFcn',  @myAdder_OutputFcn, ...
                   'gui_LayoutFcn',  [] , ...
                   'gui_Callback',   []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT


% --- Executes just before myAdder is made visible.
function myAdder_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to myAdder (see VARARGIN)

% Choose default command line output for myAdder
handles.output = hObject;
```

```
% Update handles structure
guidata(hObject, handles);

% UIWAIT makes myAdder wait for user response (see UIRESUME)
% uiwait(handles.figure1);


% --- Outputs from this function are returned to the command line.
function varargout = myAdder_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;



function input1_editText_Callback(hObject, eventdata, handles)
% hObject    handle to input1_editText (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Hints: get(hObject,'String') returns contents of input1_editText as text
%        str2double(get(hObject,'String')) returns contents of input1_editText as a↙
double
input = str2num(get(hObject,'String'));
if (isempty(input))
     set(hObject,'String','0')
end
guidata(hObject, handles);

% --- Executes during object creation, after setting all properties.
function input1_editText_CreateFcn(hObject, eventdata, handles)
% hObject    handle to input1_editText (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get↙
(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end



function input2_editText_Callback(hObject, eventdata, handles)
% hObject    handle to input2_editText (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% Hints: get(hObject,'String') returns contents of input2_editText as text
%        str2double(get(hObject,'String')) returns contents of input2_editText as a↙
double
input = str2num(get(hObject,'String'));
```

```
if (isempty(input))
     set(hObject,'String','0')
end
guidata(hObject, handles);

% --- Executes during object creation, after setting all properties.
function input2_editText_CreateFcn(hObject, eventdata, handles)
% hObject    handle to input2_editText (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called

% Hint: edit controls usually have a white background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'), get↙
(0,'defaultUicontrolBackgroundColor'))
    set(hObject,'BackgroundColor','white');
end


% --- Executes on button press in add_pushbutton.
function add_pushbutton_Callback(hObject, eventdata, handles)
% hObject    handle to add_pushbutton (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

a = get(handles.input1_editText,'String');
b = get(handles.input2_editText,'String');
% a and b are variables of Strings type, and need to be converted
% to variables of Number type before they can be added together

total = str2num(a) + str2num(b);
c = num2str(total);
% need to convert the answer back into String type to display it
set(handles.answer_staticText,'String',c);
guidata(hObject, handles);
```