

Select a Folder to Read Files in Python

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If you have ever wondered how the dialogboxes work in a Python application, then you probably end up hearing the **filedialog** module in Tkinter. The **filedialog** module contains a number of built-in functions which can be used to display various types of dialogs for dealing with files in the system.

In most cases, we use the **filedialog.askopenfilename()** function to ask the user to browse and open a file from the system. Based on the selection of the filetype, the script is programmed to perform write or read operation.

Once a file is opened, you can use the **open(file, 'mode')** function to open and perform operations in any mode. To demonstrate this, let's take an example where we will create an application that will ask the user to open a text file. Once a file is selected and opened, we can read this file using the "read" mode of operation.

Example

```
# Import the library
from tkinter import *
from tkinter import filedialog
# Create an instance of window
win=Tk()
# Set the geometry of the window
win.geometry("700x300")
# Create a label
Label(win, text="Click the button to open a dialog", font='Arial 16 bold').pack(pady=15)
# Function to open a file in the system
def open_file():
    filepath = filedialog.askopenfilename(title="Open a Text File", filetypes= (("text files", "*.txt"), ("all files", "*.*")))
    file = open(filepath, 'r')
    print(file.read())
    file.close()
# Create a button to trigger the dialog
button = Button(win, text="Open", command=open_file)
button.pack()
win.mainloop()
```

Output

Running the above code will display a window with a button to open a dialog.

