

```
main.py things.txt ⋮
1 def write():
2     animal=input('Enter name of animal: ')
3     fruit=input('Enter name of fruit: ')
4     country=input('Enter name of country: ')
5     outfile=open("things.txt","a")
6     outfile.write(animal+'\n')
7     outfile.write(fruit+'\n')
8     outfile.write(country+'\n')
9     outfile.close()
10    print('data recorded')
11 write()
```

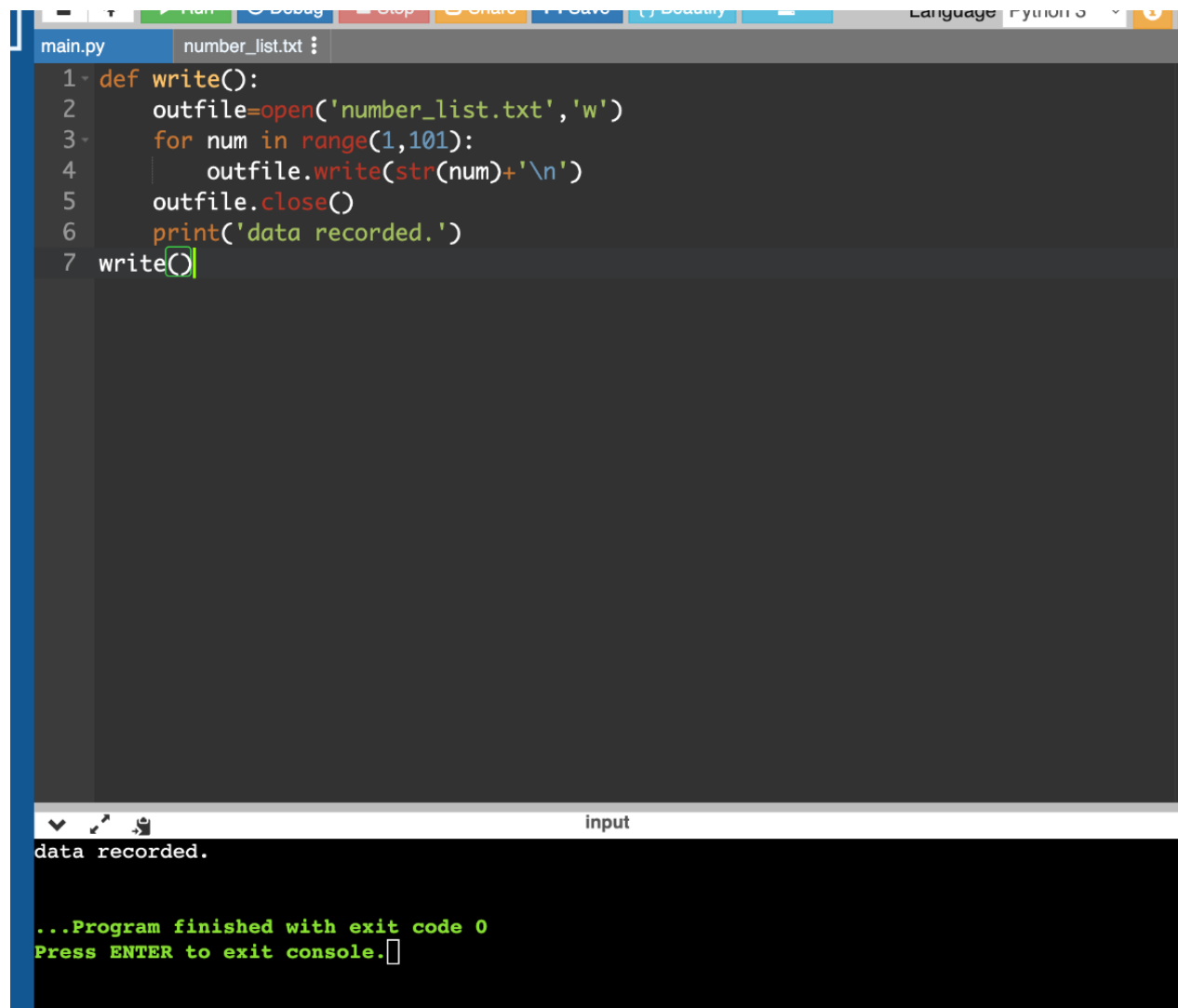
input

```
Enter name of animal: dog
Enter name of fruit: apple
Enter name of country: usa
data recorded

...Program finished with exit code 0
Press ENTER to exit console.
```

main.py

```
1 def read():  
2     infile=open('things.txt','r')  
3     filecontents=infile.read()  
4     infile.close()  
5     print(filecontents)  
6 read()
```



The image shows a Python IDE interface. At the top, there are tabs for 'main.py' and 'number\_list.txt'. The 'main.py' tab is active, displaying a Python script. The script defines a function 'write()' that opens a file named 'number\_list.txt' in write mode ('w'), iterates over the range 1 to 101, writes each number followed by a newline character, closes the file, and prints 'data recorded.'. The function is then called. Below the code editor, there is a console window titled 'input'. The console shows the output 'data recorded.' and a message indicating the program finished with exit code 0, prompting the user to press ENTER to exit the console.

```
1 def write():
2     outfile=open('number_list.txt','w')
3     for num in range(1,101):
4         outfile.write(str(num)+'\n')
5     outfile.close()
6     print('data recorded.')
7 write()
```

data recorded.

...Program finished with exit code 0  
Press ENTER to exit console.

main.py

```
1 import tkinter as tk
2 from tkinter import messagebox
3 win=tk.Tk()
4 win.geometry("300x70")
5 win.title("sum of numbers")
6 def write():
7     try:
8         outfile=open("number.txt","w")
9         for value in range(100,1100,100):
10             outfile.write(str(value)+"\n")
11         outfile.close()
12     except Exception as err:
13         print(err)
14 write()
15 def calculate_total():
16     try:
17         infile=open("number.txt","r")
18         tot=0
19         nums_list=[]
20         for line in infile:
21             content=float(line)
22             nums_list.append(content)
23             tot+=content
24         messagebox.showinfo("sum of numbers","numbers in file:\n"+str(nums_list)+"\n"+f"total:{tot}")
25         infile.close()
26     except Exception as err:
27         print(err)
28 def quit():
29     messagebox.showinfo("Exit","Thank you...")
30     win.destroy()
31 btnTotal=tk.Button(win,text="total",command=calculate_total)
32 btnQuit=tk.Button(win,text="quit",command=quit)
33 btnTotal.pack(side='top')
34 btnQuit.pack(side='bottom')
35 win.mainloop()
```