Write a python program with appropriate comments that creates a menu-driven program that allows a user to enter five numbers (integers) and then choose an operation from one of the operations: finding the smallest, largest, sum, average, or end.

* The program should have a main function and at least five functions. The program execution starts by calling main function that calls all other functions
* The menu and all the choices must be functions
* Each function must do only one action
* Provide an error message if an invalid choice is entered.
* Prompt the user to enter valid number if one of the five numbers entered is not in the valid range. The valid range is between 25 to 250 (including 25 and 250)
* The program should terminate only when the user selects end option from the menu
* For every pass, the user should be prompted to enter five numbers within the valid range

Points will be deducted for programs that:

* fail to follow instructions
* lack sufficient documentation
* violate basic program design

Programs that do not compile or compile with errors will earn zero points.

x=list(map(int, input("Please enter FIVE numbers: ").split()))

print("Now choose one function listed below: ")

print("Smallest, Largest, Sum, Average, End")

choosefunction=input("Chosen Funtion is: ")

def main():

global choosefunction

smallestnumber(x)

largestnumber(x)

sumnumber(x)

averagenumber(x)

end(x)

return main

def smallestnumber(x):

if choosefunction=="Smallest":

smallest=min(x)

return print(smallest)

def largestnumber(x):

if choosefunction=="Largest":

largest=max(x)

return print(largest)

def sumnumber(x):

if choosefunction=="Sum":

sumnr=sum(x)

return print(x)

def averagenumber(x):

if choosefunction=="Average":

average=sum(x)/5

return print(average)

def end(x):

if choosefunction=="End":

return print("It is the end")