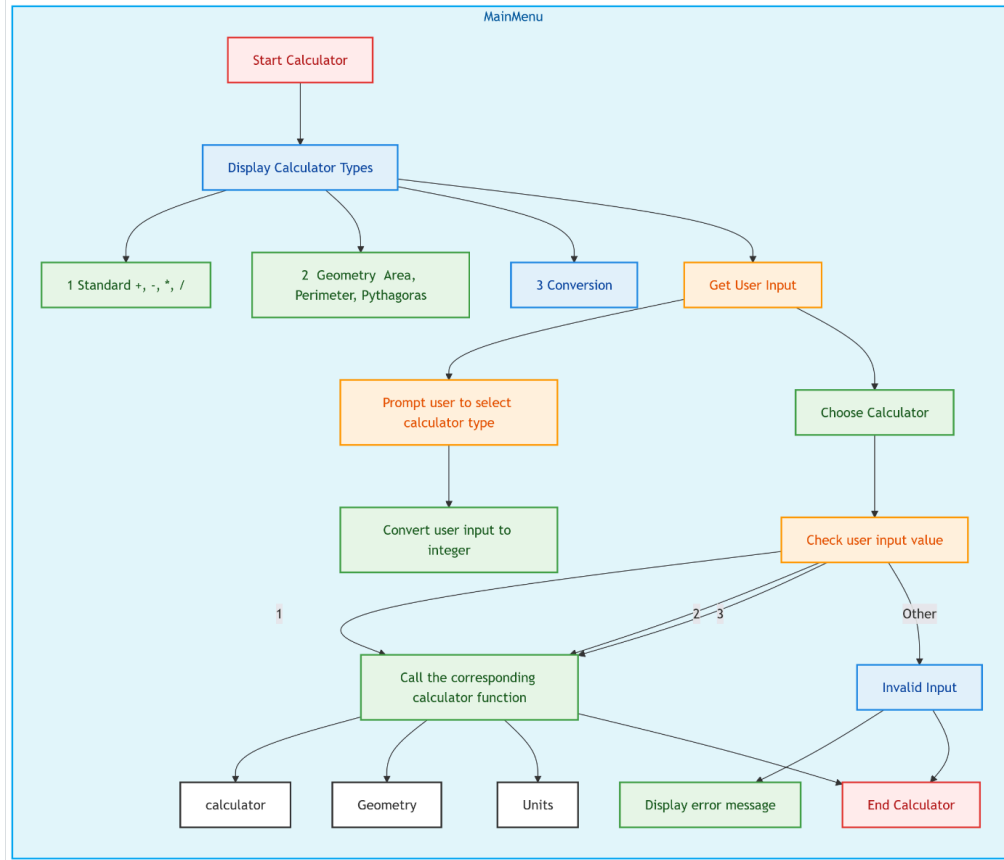


Design Document:

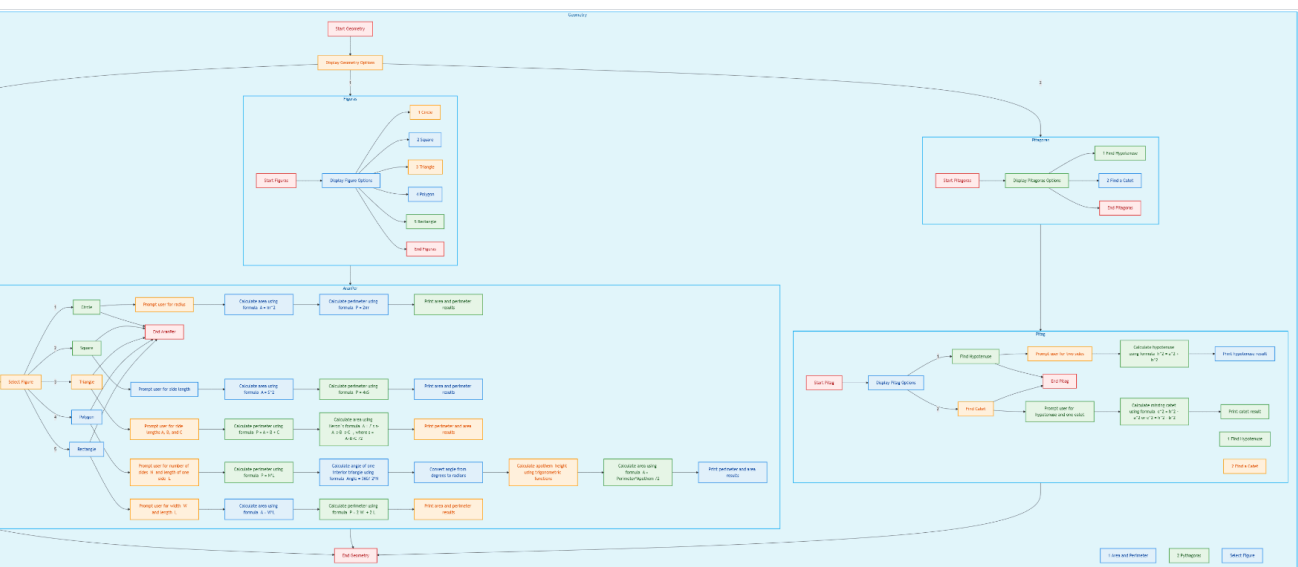
Main Function

```
Start["Start Main Program"]
  DisplayOptions["Display Calculator Options"]
  DisplayOptions_1["Print `Tipo de calculadora`"]
  DisplayOptions_2["Print option 1 `Standar +, -, *, /`"]
  DisplayOptions_3["Print option 2 `Geometry Area and Perimeter and Pythagoras`"]
  DisplayOptions_4["Print option 3 `Conversion`"]
  GetUserInput["Get User Input"]
  GetUserInput_1["Prompt user to enter a value"]
  GetUserInput_2["Convert user input to an integer"]
  HandleUserInput["Handle User Input"]
  HandleUserInput_1["Check if user input is 1"]
  HandleUserInput_2["Check if user input is 2"]
  HandleUserInput_3["Check if user input is 3"]
  HandleUserInput_4["Handle invalid user input"]
  InvokeCalculator["Invoke Calculator"]
  InvokeCalculator_1["Call the calculator function from the Arithmetic module"]
  InvokeGeometry["Invoke Geometry"]
  InvokeGeometry_1["Call the Geometry function from the Geometry module"]
  InvokeConversion["Invoke Conversion"]
  InvokeConversion_1["Call the Units function from the Conversion module"]
End["End Main Program"]
Start --> DisplayOptions
DisplayOptions --> DisplayOptions_1 --> DisplayOptions_2 --> DisplayOptions_3 -->
DisplayOptions_4
DisplayOptions --> GetUserInput
GetUserInput --> GetUserInput_1 --> GetUserInput_2
GetUserInput --> HandleUserInput
HandleUserInput --> HandleUserInput_1 --> InvokeCalculator
HandleUserInput --> HandleUserInput_2 --> InvokeGeometry
HandleUserInput --> HandleUserInput_3 --> InvokeConversion
HandleUserInput --> HandleUserInput_4 --> End
InvokeCalculator --> InvokeCalculator_1
InvokeGeometry --> InvokeGeometry_1
InvokeConversion --> InvokeConversion_1
InvokeCalculator_1 --> End
InvokeGeometry_1 --> End
InvokeConversion_1 --> End
end
```

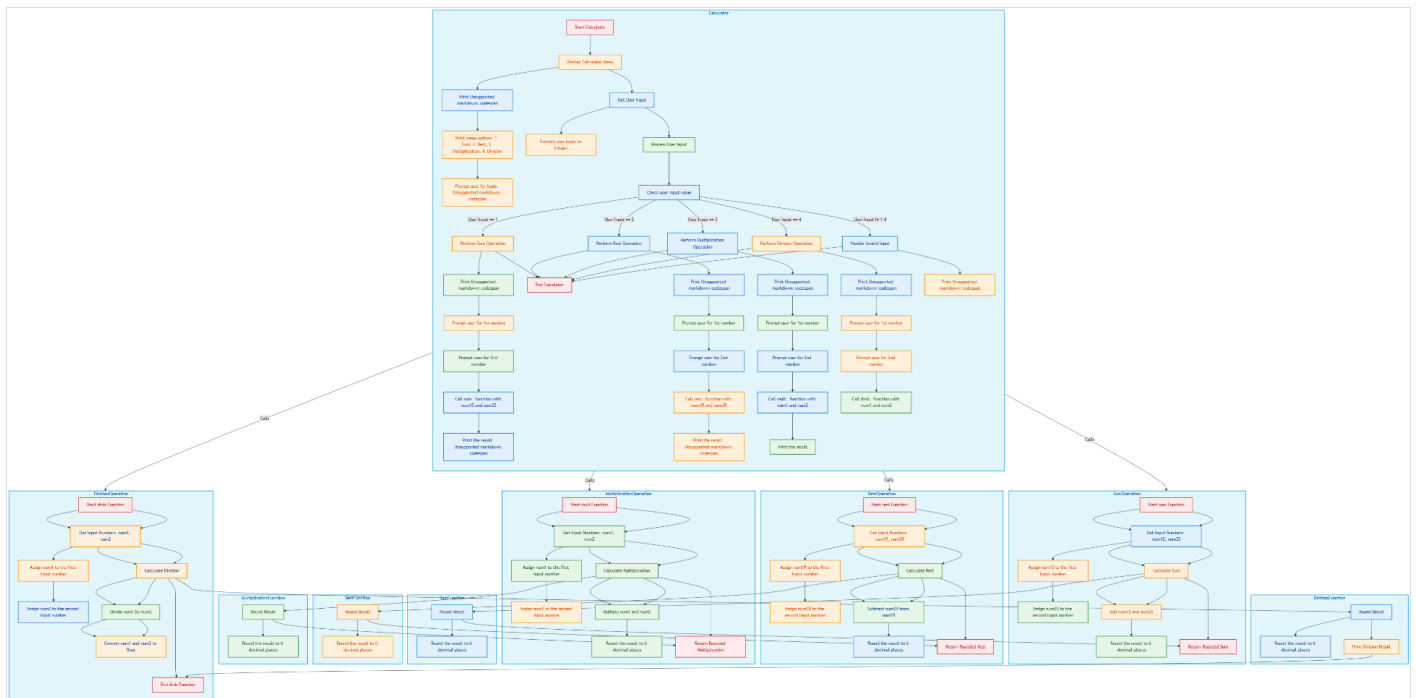
Main:



Geometry:



Arithmetic



Aside notes:

To be honest I couldn't finish the project as I would have liked to do, I still need to work on the side of *Conversion* and the program itself isn't shown as I would have liked to see it. The previous idea of having a desk app that's the goal, unfortunately I ran out of time so I decided to give all the code that I did so far.

Things that I learned:

- I know more about programming on python than before
- The Internet is your best friend, because to be honest it helped in generating the Flowchart and sometimes when I got stuck on something, the Internet was there.
- The project itself I will keep working on even, if it's just for fun