In the brief it states”Add Validation on userinputs, Add more Comments to the code, Modularise the code and reusing code where possible and to add more funcontionalylyit to calucluater the repayments on a bank loan” I have achieved every single one of those requirements in the linked code.

Validation checker:

For one of the tasks it asks you to add a validation checker on all specifyied inputs from the user rather then adding a try and except to everysingle input in pithing I decided to rather make a function appdly named ‘input\_val’ short for Input Validation, this function can be added quicky by adding \_val to every input function this sub program takes in the Message Type of Data and The Range of data and outputs the data inputed by the end user it goes through multiple validation checks to make sure that if it’s a number its not a numbr or that therer is data input and etc I think this is the most optimal way of doing this as it reusese a lot of the same code whulkst keeping it nice and compact

Comments:

I have commented all of the more important linesa in my code either from adding new stuff, changing code and even fixing a couple of issues I added comments to know exactly what ive done and what I have done for an example on my validation checker for each check I have commented what they do and from that it explains why they are there

Modularise the code:

From my intedial look the code itself was already pretty modular all ive done is make some things a bit neeter and cleaner allowing for a more readable experience sectioning off different parts of the code to make my code that don’t need to be together and that are reapeated in the code into one sub program to allow it to be called again and over again, Also making my varible names align to what they do also allows for better future support and optimising some code to make it run better and easier to read

Adding More Functionallity:

In task3 It asks us to either make a flow chart or pseudo code to allow for more functionally in the code from my pseudocode I easily implemented the ‘Calculate Loan Repayments’ also using everything above to help me I segregated this code from the rest by putting it into a function I also reused part of the code in my code more noticeably the Calculate Monthly repayment to help me slim down on code by reusuing pre exisiting code allowinf for the execute of my code to be more noticeably faster infortune I have forgotten to comment on my code which is something I will try to do more in the future as it will help for future developments of this code and that ut can easily be read by someone who didn’t code thgus in my code instead of using multiple if and elif statements on top of each other I created a dictionary to help the readability of my code and it is using a more advance technique instead of checking through all of the if statements one by one line by line it instead just looks for the correct number in the dictoary, this can be enhanced by instead of asking for numbers asking for which function they would want to run through basic human text

Improvemnts

In my code there is a couple of things I would like to improve and make better such as the for said text instread of numbers but I would also love to add a Gui- graphical user interface to make it more user friendly and responsive, Text file with encryptions to allow for multiple uses of the code, a username and password system allowing for other users on the same machine with the code I have now I think it would be pretty simple to implement them into my code some of the things I would have to change in how the inputs and outputs would be managed but other than that nothing much would have to change all of the code in my pythin file has a readon to be there and is easily intrgradable wit all of the oimprovemnts I woukld love to do later down the line, some of the reasons why I have not implemented these is because of my time resistriction haptlyu named I lost my orginal python file which had a hour of work on it bercuase of this mistake I have learnt to always back up my files as now I uploaded them directly onto both Microsoft onedrive and my own personal gihub alowng for multiple points of failure another reason x