Inputs

• 3 integer values from keyboard

Outputs

- Message asking for user to input 3 integer values
- Message displaying final CPU answer
- Message displaying final FPU answer
- Message asking if user wants to continue program or exit

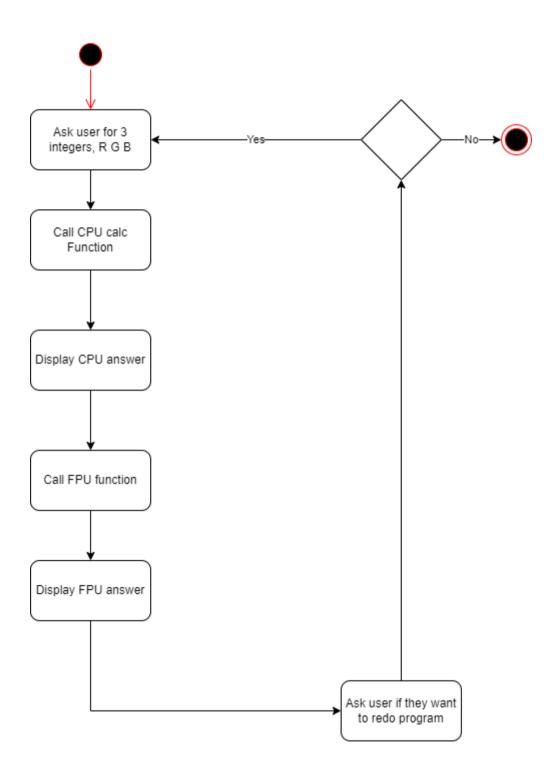
Variables

- Output BYTE for saying display function final CPU answer: msgCPU
- Output BYTE for saying display function final FPU answer: msgFPU
- Output BYTE message for input integer of B: msgB
- Output BYTE message for input integer of G: msgG
- Output BYTE message for input integer of R: msgR
- Output BYTE for asking user if they want to exit program: msgExit

Algorithm

- **1.** Ask user to input 3 strings (R,G,B)
- 2. Call a function to get the CPU calculation [R * 3 / 10 + G * 6 / 10 + B * 1 / 10]
- **3.** Display CPU answer
- **4.** Call a function to get the FPU calculation [R * 0.299 + G * 0.587 + B * 0.114]
- 5. Display FPU answer
- **6.** Ask user if they want to exit or repeat program

Flow Diagram



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Stack Diagrams

GrayScaleCPU Function

В
G
R
return
address
Old EBP
3/10
6/10
Final CPU
answer
EBX
ECX
EDX
FLAGS <-ESP

greyScaleFPU function

В
G
R
return
address
Old EBP
114
587
229
B*114
G*587
R*229
Final answer
EAX
EBX
ECX
EDX
FLAGS <-ESP

Main function

return	
address	
Old EBP	
R	
G	
В	