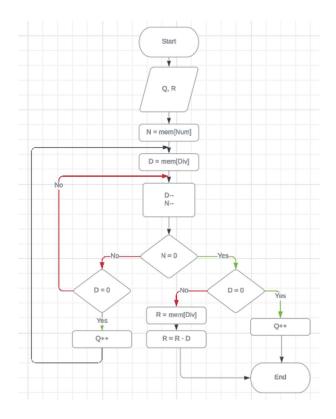
Johnny – Division Program Wiktor Zmiendak

1. Task:

Create a program in Johnny to do division of two numbers.

2. Flowchart:

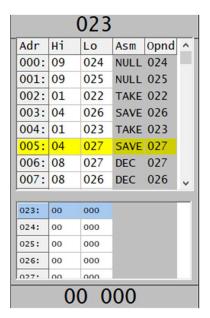


3. Solution:

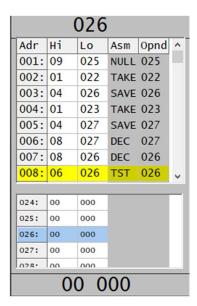
• First set addresses 024 and 025 to 0

025					
Adr	Hi	Lo	Asm	Opnd	^
000:	09	024	NULL	024	
001:	09	025	NULL	025	
002:	01	022	TAKE	022	
003:	04	026	SAVE	026	
004:	01	023	TAKE	023	
005:	04	027	SAVE	027	
006:	08	027	DEC	027	
007:	08	026	DEC	026	v
022:	00	000			
023:	00	000			
024:	00	000			
025:	00	000			
026.	nn	000			
00 000					

• Then take 022 and save it into 026 and also take 023 and save it into 027



• Decrement addresses 027 and 026



- Check if 026 is 0, if no then jump to the address 014, if yes check if 027 is 0 and if yes then program goes to the next instruction
- Increment 024 and ends the program but if no jump to the 018 and there take 023, subtract it with 027 and save it into 025 where is our remainder and then program ends
- Check if 027 is 0 if no jump to the address 006 and loop goes on and on but if yes increment address 024 and jump into 004

