

1.JAVA VOTING PROGRAM

```
App.java U Main.java U X
src > Main.java > Main > isAllowed(String, int)
1 import java.util.Scanner;
2
3 CodeMate
public class Main {
4 Run | Debug
public static void main(String[] args) {
5 Scanner myObj = new Scanner(System.in);
6 System.out.print(s:"\tWELCOME TO THE VOTING PROGRAM\nEnter your name: ");
7 String username = myObj.nextLine();
8 System.out.print(s:"Enter your age: ");
9 int user_age = myObj.nextInt();
10 myObj.close();
11 isAllowed(username, user_age);
12 }
13
14 public static void isAllowed(String name, int age)
15 {
16 if(age >= 18)
17 {
18 System.out.println(name+ ", you are eligible to vote.");
19 }else{
20 System.out.println(name+ ", you are not eligible to vote..");
21 }
22 }
23 }
24

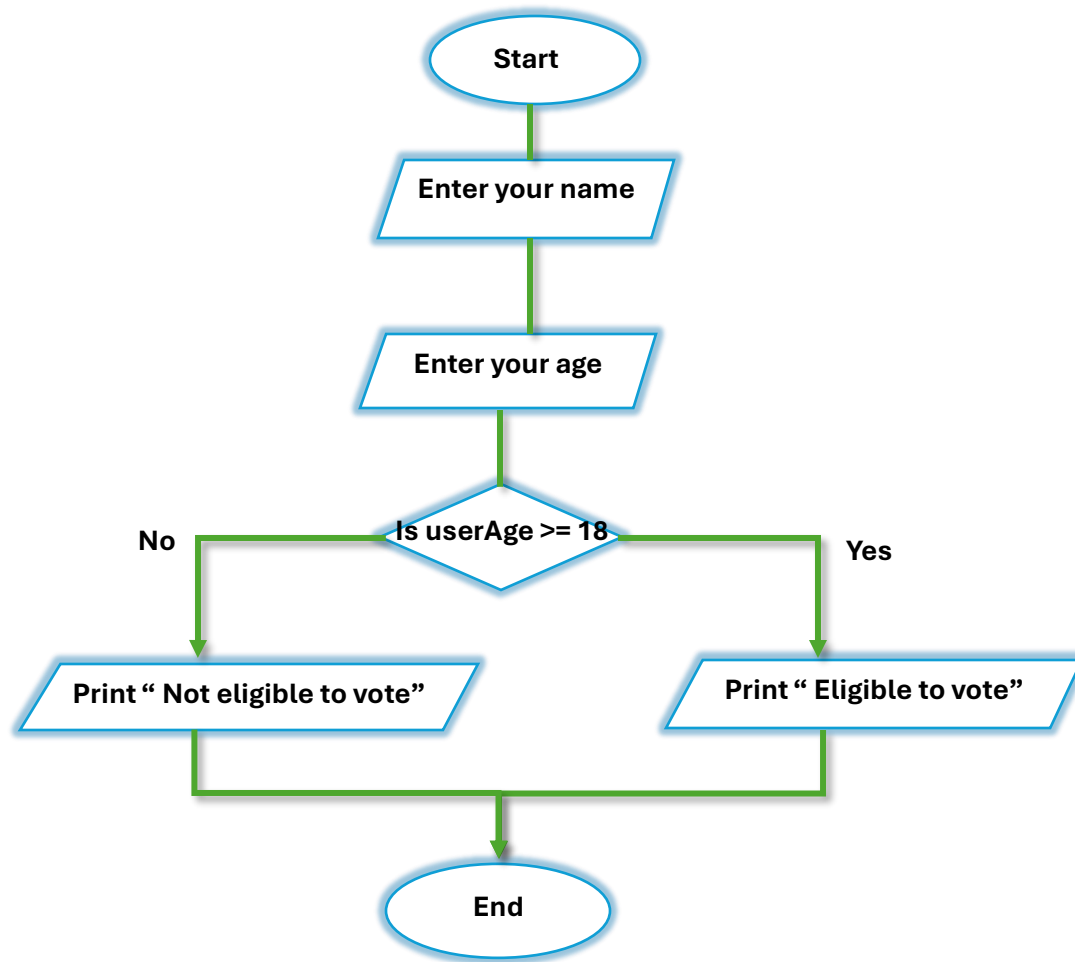
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
WELCOME TO THE VOTING PROGRAM
Enter your name: Ndaedzo
Enter your age: 16
Ndaedzo, you are not eligible to vote..
PS C:\Users\Cleme\Desktop\Java Projects\Student Assignment 2024>
aster* 0 0 0 0 0 0 0 Java: Ready Ln 20, Col 41 Spaces: 4 UTF-8 CRLF {} Java
```

2.MASM VOTING PROGRAM

```
EQUList votingAssignment.asm vote.asm U X
vote.asm
1 TITLE Voting Program (vote.asm)
2 INCLUDE Irvine32.inc
3
4 .data ;initialized labels
5 nameMsg BYTE "Enter your name: ",0
6 ageMsg BYTE "Enter your age: ",0
7 userName BYTE 20 DUP(0),0
8 votingMsg BYTE ", you are eligible to vote.",0
9 notVotingMsg BYTE ", you are not eligible to vote.",0
10 age DWORD ?
11 .code ;procedures
12
13 isAllowed PROC ;display that the user is allowed to vote
14 mov edx, OFFSET votingMsg
15 call writeString
16 ret
17 isAllowed ENDP
18
19 isNotAllowed PROC ;display that the user is not allowed to vot
20 mov edx, OFFSET notVotingMsg
21 call writeString
22 ret
23 isNotAllowed ENDP
24
25 main PROC
26 call clrscr
27 mov edx, OFFSET nameMsg ; collect name and age
28 call writeString
29 mov edx, OFFSET userName
30 mov ecx, SIZEOF userName
31 call readString
32
33 call Crlf
34 mov edx, OFFSET ageMsg
35 call writeString
36 call readInt
37 mov age, eax
38 call Crlf
39
40 mov edx, OFFSET userName
41 call writeString
42 cmp age, 18 ;jump to isAllowed if age>=18
43 jge isAllowed
44 cmp age, 18 ;jump to isNotAllowed if age<18
45 jl isNotAllowed
46
47 exit
48 main ENDP
49 END main
aster* 0:11 0 0 0 0 0
```

```
Select C:\WINDOWS\system32\cmd.exe
Enter your name: Ndaedzo
Enter your age: 16
Ndaedzo, you are not eligible to vote.
c:\Masm615>
```

3.FLOW CHART



4.PSEUDOCODE

Declare Data

``nameMsg`` : Prompt for user's name
``ageMsg`` : Prompt for user's age
``userName`` : Stores the user's name
``votingMsg`` : Message for eligible voters
``notVotingMsg`` : Message for ineligible voters
``age`` : Stores user's age

Main Procedure

- Clear screen. call `ClrScr`
- Prompt and read the user's name.
- Prompt and read the user's age.
- Display the user's name.
- If `age >= 18`, call ``isAllowed``, else call ``isNotAllowed``.
- Exit the program.