STUDENT INFORMATIONS

- Merve KILCI
- B211202375- 1. class
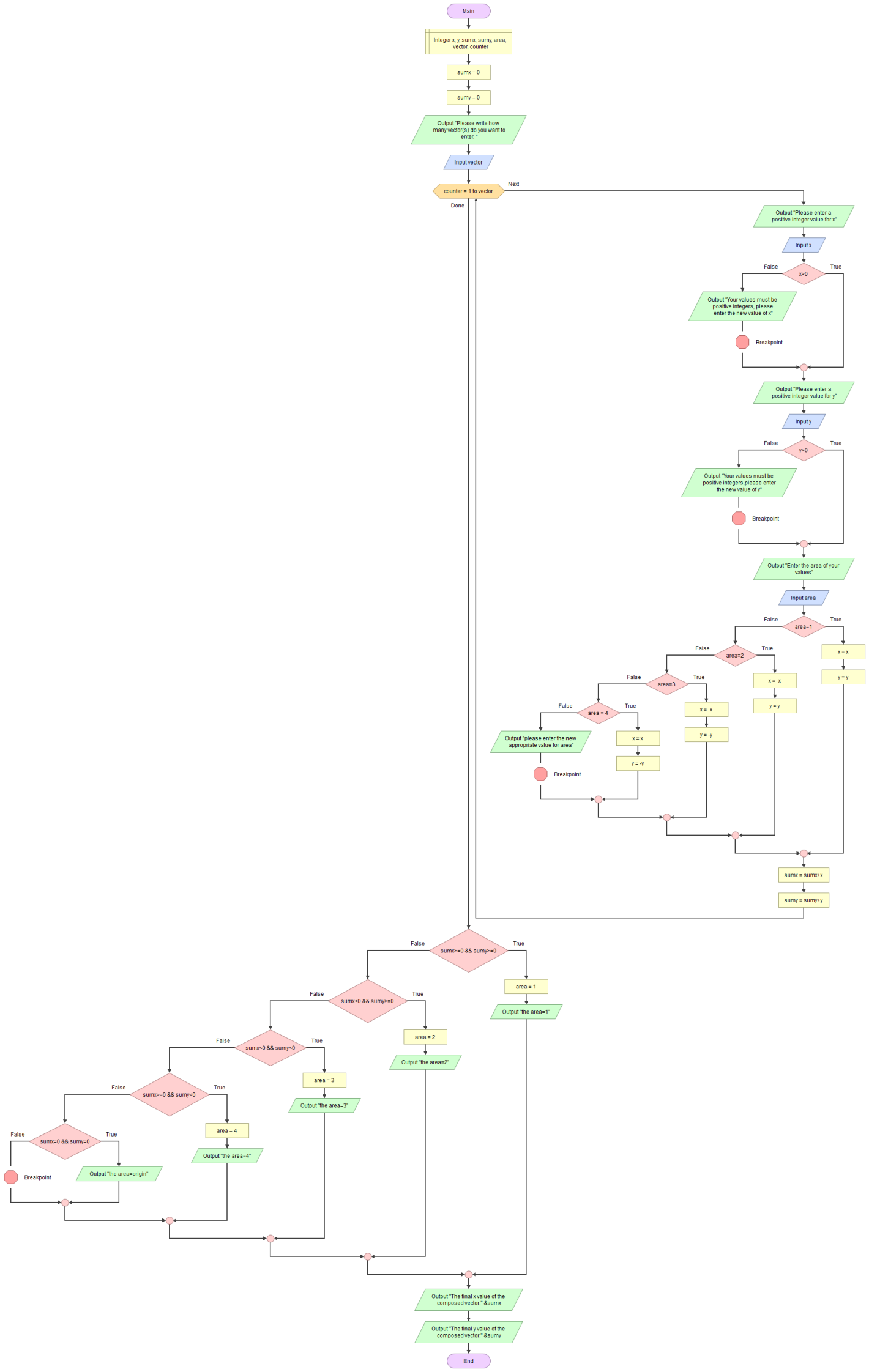- SWE-101 Problem Solving In Software Engineering
- Lecturer:

Assistant Professor Gülüzar ÇİT

```
                              Main

              Integer x, y, sumx, sumy, area,
                   vector, counter

                          sumx = 0

                          sumy = 0

              Output "Please write how
              many vector(s) do you want to
                      enter. "

                       Input vector

                    counter = 1 to vector          Next
                                                                    Output "Please enter a
                     Done                                           positive integer value for x"

                                                                         Input x

                                                            False                        True
                                                                         x>0

                                              Output "Your values must be
                                              positive integers, please
                                              enter the new value of x"

                                                        Breakpoint

                                                                    Output "Please enter a
                                                                    positive integer value for y"

                                                                         Input y

                                                            False                        True
                                                                         y>0

                                            Output "Your values must be
                                            positive integers,please enter
                                            the new value of y"

                                                        Breakpoint

                                                                    Output "Enter the area of your
                                                                          values"

                                                                       Input area

                                                            False                        True
                                                                        area=1

                                                            False                 True       x = x
                                                                       area=2
                                                                                              y = y
                                              False            True     x = -x
                                                     area=3
                                                                        y = y
                        False              True    x = -x
                              area = 4
                                                   y = -y
              Output "please enter the new     x = x
              appropriate value for area"
                                              y = -y
                        Breakpoint

                                                                       sumx = sumx+x

                                                                       sumy = sumy+y

              False                                    True
                       sumx>=0 && sumy>=0

              False                             True          area = 1
                       sumx<0 && sumy>=0
                                                             Output "the area=1"
              False                      True     area = 2
                       sumx<0 && sumy<0
                                                 Output "the area=2"
        False                    True    area = 3
                sumx>=0 && sumy<0
                                        Output "the area=3"
  False                 True    area = 4
         sumx=0 && sumy=0
                                Output "the area=4"
Breakpoint        Output "the area=origin"

                              Output "The final x value of the
                              composed vector:" &sumx

                              Output "The final y value of the
                              composed vector:" &sumy

                                     End
```

1- Start

2-Declare Integer x, y, sumx, sumy, area, vector, counter

3-sumx = 0

4-sumy = 0

5-Print

"Please write how many vector(s) do you want to enter. "

6-Input vector

7-For counter = 1 to vector

8- Print "Please enter a positive integer value for x"

9- Input x

10- If x>0

    False:

11- Print "Your values must be positive integers, please enter the new value of x"

12-End

13-Print "Please enter a positive integer value for y"

14-Input y

15-If y>0

    False:

16- Print "Your values must be positive integers,please enter the new value of y"

17- End

18-Print "Enter the area of your values"

19-Input area

20- If area=1

21-   x = x

22-   y = y

   False:

23- If area=2

24-   x = -x

25-   y = y

      False:

 26-If area=3

         x = -x

         y = -y

         False:

 27-If area = 4

          x = x

          y = -y

          False:

28- Print "please enter the new appropriate value for area"

29-   End

30-   End

31-   End

32-   End

33-sumx = sumx+x

34- sumy = sumy+y

35- End

36-If sumx>=0 && sumy>=0

          area = 1

37- Print "the area=1"

 False:

38-If sumx<0 && sumy>=0

          area = 2

39- Print"the area=2"

          False:

40- If sumx<0 && sumy<0

41-   area = 3

42- Print"the area=3"

          False:

43-If sumx>=0 && sumy<0

area = 4

44-Print "the area=4"

      False:

45-If sumx=0 && sumy=0

46-Print "the area=origin"

      False:

47-   End

48-   End

49-   End

50- End

51- End

52- Print"The final x value of the composed vector:" &sumx

53-Print "The final y value of the composed vector:" &sumy

54-End