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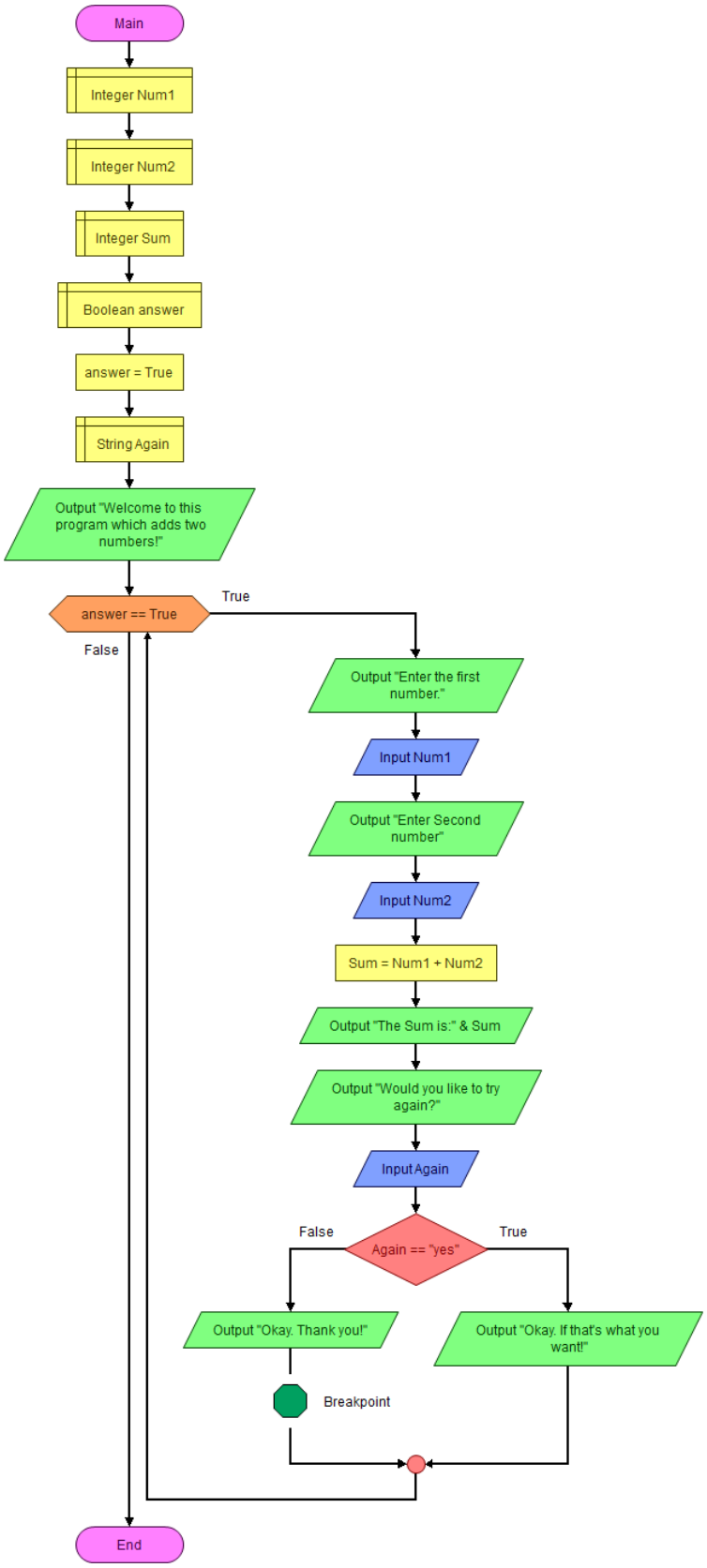
AC192

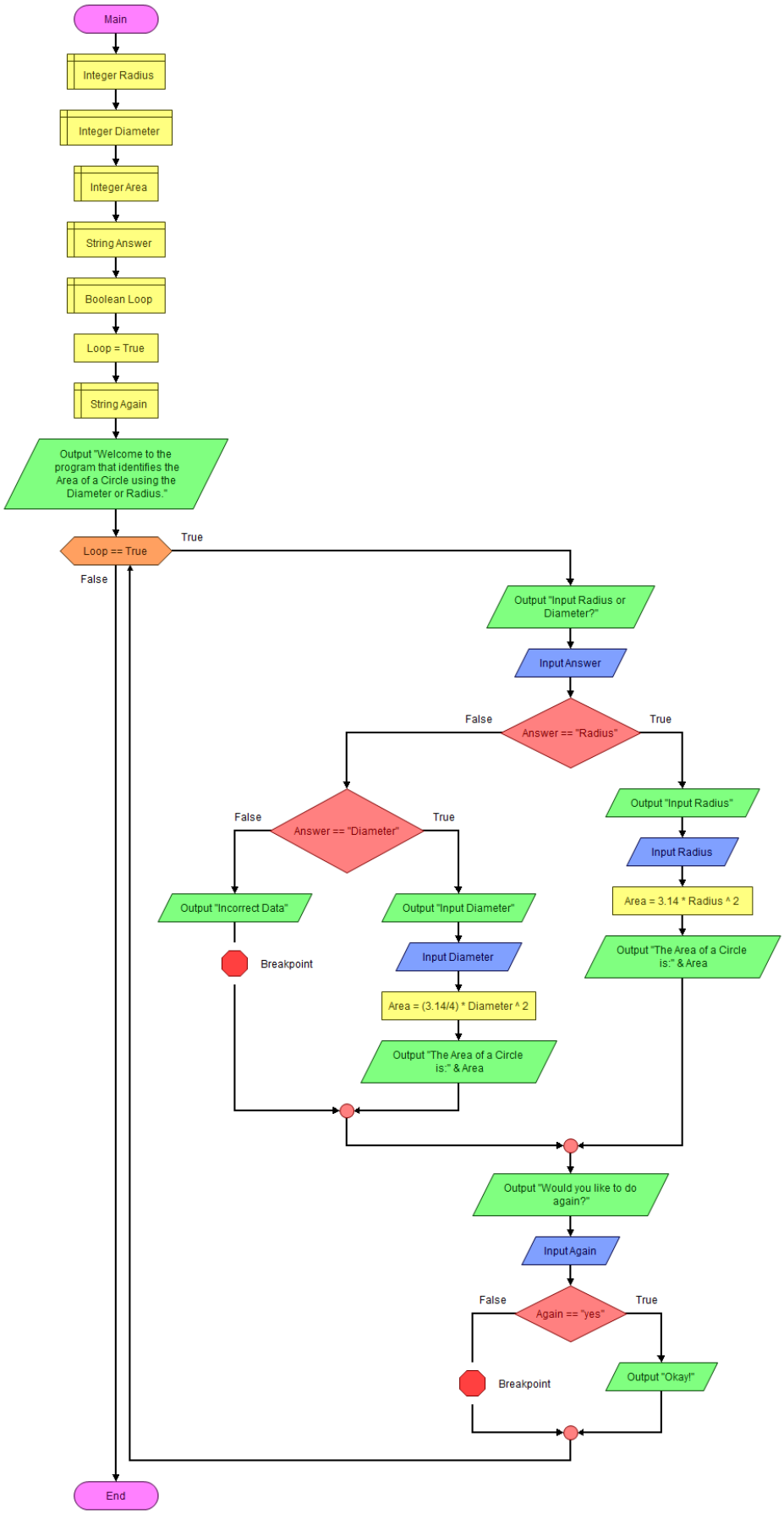
Activity # 4: Flowgorithm Exercises Discussion

M1: Adding Two Numbers



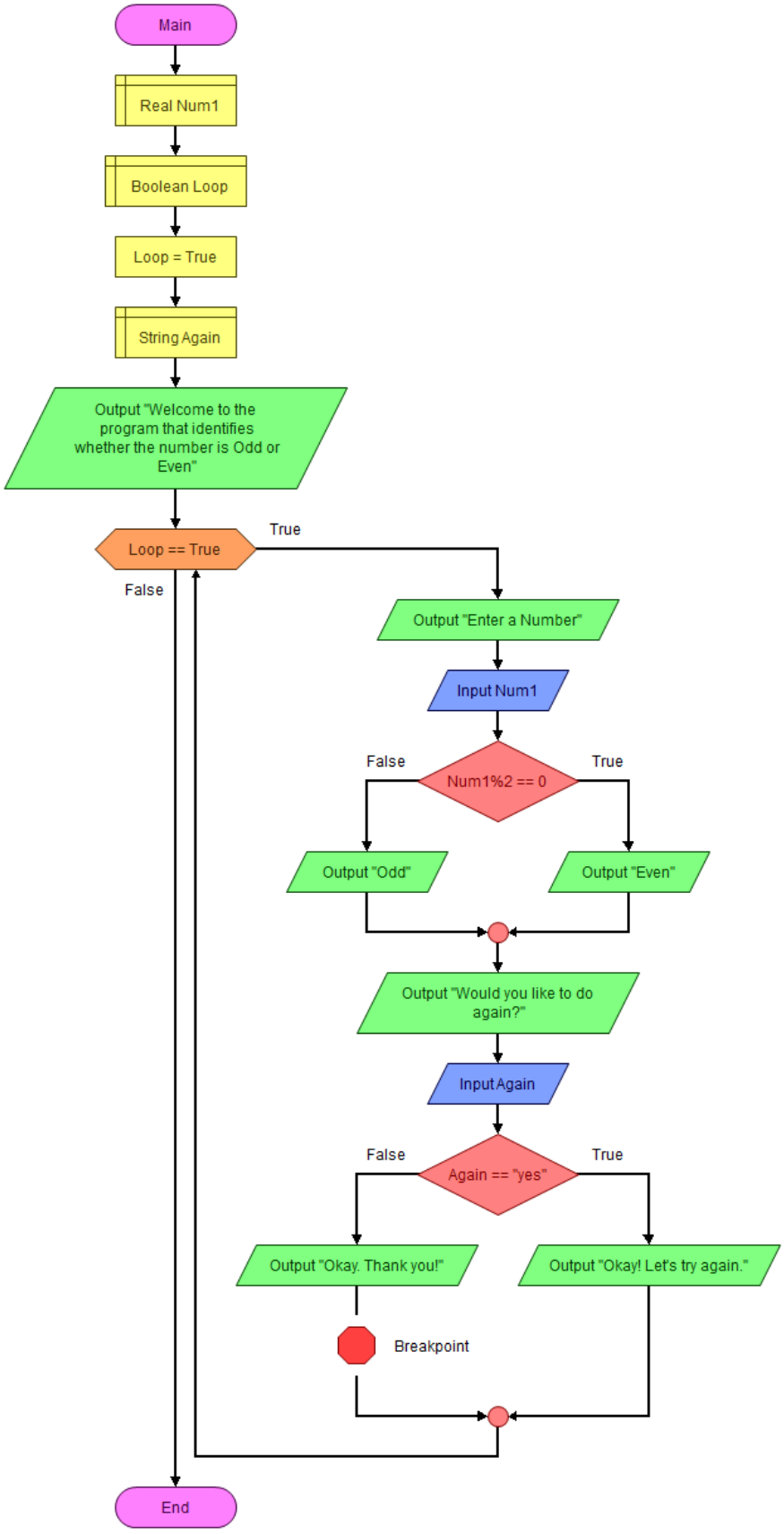
```
Function Main
    Declare Integer Num1
    Declare Integer Num2
    Declare Integer Sum
    Declare Boolean answer

    Assign answer = True
    Declare String Again

    Output "Welcome to this program which adds two numbers!"
    While answer == True
        Output "Enter the first number."
        Input Num1
        Output "Enter Second number"
        Input Num2
        Assign Sum = Num1 + Num2
        Output "The Sum is:" & Sum
        Output "Would you like to try again?"
        Input Again
        If Again == "yes"
            Output "Okay. If that's what you want!"
        False:
            Output "Okay. Thank you!"
        End
    End
End
```

M2: Getting the Area of a Circle using Diameter or Radius



```
Function Main
    Declare Integer Radius
    Declare Integer Diameter
    Declare Integer Area
    Declare String Answer
    Declare Boolean Loop
    Assign Loop = True
    Declare String Again
    Output "Welcome to the program that identifies the Area of a Circle using the Diameter or Radius."
    While Loop == True
        Output "Input Radius or Diameter?"
        Input Answer
        If Answer == "Radius"
            Output "Input Radius"
            Input Radius
            Assign Area = 3.14 * Radius ^ 2
            Output "The Area of a Circle is:" & Area
        False:
            If Answer == "Diameter"
                Output "Input Diameter"
                Input Diameter
                Assign Area = (3.14/4) * Diameter ^ 2
                Output "The Area of a Circle is:" & Area
            False:
                Output "Incorrect Data"
            End
        End
        Output "Would you like to do again?"
        Input Again
        If Again == "yes"
            Output "Okay!"
        False:
        End
    End
```

M3: Odd and Even Number Identifier



```
Function Main
    Declare Real Num1
    Declare Boolean Loop

    Assign Loop = True
    Declare String Again

    Output "Welcome to the program that identifies whether the number is Odd or Even"
    While Loop == True
        Output "Enter a Number"
        Input Num1
        If Num1%2 == 0
            Output "Even"
        False:
            Output "Odd"
        End
        Output "Would you like to do again?"
        Input Again
        If Again == "yes"
            Output "Okay! Let's try again."
        False:
            Output "Okay. Thank you!"
        End
    End
End
```