JANDAYAN, JESSA A.  (AC192)

```
                        ┌──────────┐
                        │   Main   │
                        └────┬─────┘
                             │
                             ▼
              ╱─────────────────────────────╱
             ╱ Output "Welcome,Lets Add two ╱
            ╱          Numbers"            ╱
           ╱─────────────────────────────╱
                             │
                             ▼
              ╱─────────────────────────────╱
             ╱ Output "Please Set your 1st  ╱
            ╱          Number"             ╱
           ╱─────────────────────────────╱
                             │
                             ▼
                    ┌─────────────┐
                    │ Integer num1│
                    └──────┬──────┘
                             │
                             ▼
                  ╱─────────────────╱
                 ╱   Input num1    ╱
                ╱─────────────────╱
                             │
                             ▼
              ╱─────────────────────────────╱
             ╱ Output "Nice,Then your 2nd   ╱
            ╱          Number"             ╱
           ╱─────────────────────────────╱
                             │
                             ▼
                    ┌─────────────┐
                    │ Integer num2│
                    └──────┬──────┘
                             │
                             ▼
                  ╱─────────────────╱
                 ╱   Input num2    ╱
                ╱─────────────────╱
                             │
                             ▼
                    ┌─────────────┐
                    │ Integer Sum │
                    └──────┬──────┘
                             │
                             ▼
                    ┌──────────────────┐
                    │ Sum = num1+num2  │
                    └────────┬─────────┘
                             │
                             ▼
              ╱─────────────────────────────╱
             ╱ Output " Atlast,the answer is "& ╱
            ╱          Sum                ╱
           ╱─────────────────────────────╱
                             │
                             ▼
                        ┌──────────┐
                        │   End    │
                        └──────────┘
```

Procedures in M1:

Function Main

    Output "Welcome,Lets Add two Numbers"

    Output "Please Set your 1st Number"

    Declare Integer num1


    Input num1

    Output "Nice,Then your 2nd Number"
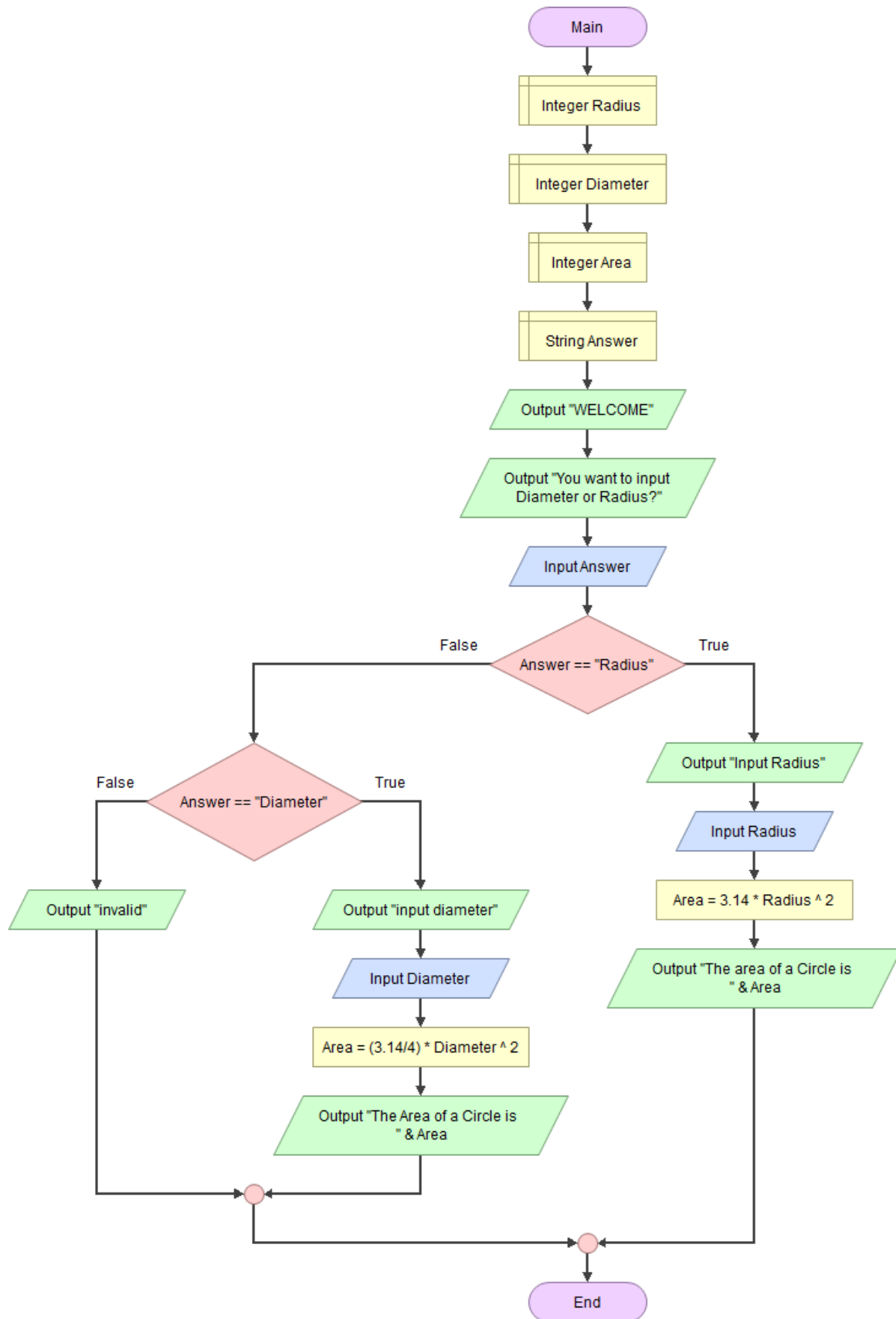
    Declare Integer num2


    Input num2

    Declare Integer Sum


    Assign Sum = num1+num2

    Output " Atlast,the answer is "&  Sum

End

```
Main

Integer Radius

Integer Diameter

Integer Area

String Answer

Output "WELCOME"

Output "You want to input
Diameter or Radius?"

Input Answer

          Answer == "Radius"
    False                    True

Answer == "Diameter"          Output "Input Radius"
False            True
                               Input Radius
Output "invalid"   Output "input diameter"
                               Area = 3.14 * Radius ^ 2
                 Input Diameter
                               Output "The area of a Circle is
                 Area = (3.14/4) * Diameter ^ 2    " & Area

                 Output "The Area of a Circle is
                 " & Area

End
```

Procedures in M2:

```
Function Main

    Declare Integer Radius

    Declare Integer Diameter

    Declare Integer Area

    Declare String Answer


    Output "WELCOME"

    Output "You want to input Diameter or Radius?"

    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 "invalid"

        End

    End

End
```