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ASSIGNMENT-1

- ***Problem 1 solution:-***

```
CLASS Calculations
BEGIN

    METHOD FIND_AVERAGE ( )
    BEGIN

        average ← 0

        FOR each of the five numbers
        READ input_value

        sum ← sum + input_value
        ENDFOR

    average ← sum/5.0
    PRINT (average)
    PRINTLINE ( )

    END FIND_AVERAGE

  METHOD FIND_MAXANDMIN ( )
  BEGIN

     READ  input_value
     max ← input_value  //assume the first input value as maximum value

      FOR the next four values
      READ input_value
```

```
            IF (max<input_value)

             max ← input_value

               ELSE

                min ← input_value

           ENDIF

       ENDFOR

    PRINT (max)
    PRINTLINE ( )
    PRINT (min)

   END FIND_MAXANDMIN

END Calculations
```

- ***Problem 2 solution:-***

```
CLASS Sum_even
BEGIN

    METHOD MAIN ( )
    BEGIN

    sum ← 0
    READ  stopping_point

       FOR  i=0 to stopping_point

          IF(i/2=0)
             THEN sum ← sum+i
```

```
            ENDIF
        ENDFOR
    PRINT(" Stopping point :"+stopping_point)
    PRINT ( )
    PRINT ("Sum of all even numbers till stopping point ="+sum)

  END MAIN

END Sum_even
```

- ***Problem 3 solution:-***

```
CLASS Age
BEGIN

    METHOD MAIN ( )
    BEGIN

     READ age
     current_age ← age

     required_age ← current_age+20


     PRINT ("Current age is:"+current_age)
     PRINTLINE ( )
     PRINT ("Age after 20 years from now is:"+required_age)

     ENDMAIN

END Age
```

- ***Problem 4 solution:-***

```
CLASS Color
BEGIN

    METHOD MAIN ( )
    BEGIN

     READ input_number
     num ←input_number

     PRINT("Entered number:"+num)

        IF(num>=0 and num<10)

        PRINT("Your color: Blue")

            ELSEIF(num>=10 and num<20)

             PRINT("Your color: RED")

            ELSEIF(num>=20 and num<30)

             PRINT("Your color: Green")

             ELSE

              PRINT("Your color: This is not a correct color option")

          ENDIF

    END MAIN

END Color
```

- ***Problem 5 solution:-***

```
CLASS Total
BEGIN

    METHOD MAIN ( )
    BEGIN

        READ input_value for the price of fries,burger and a drink
        fries_price ← input_value for the price of fries
        burger_price ← input_value for the price of burgers
       drink_price ← input_value for the price of drink

        PRINT (“Fries price:”+fries_price)
        PRINT (“Burger price:”+burger_price)
        PRINT (“Drink price:”+drink_price)

         sum ← fries_price + burger_price + drink_price

        tax ← sum*0.1

        total ← sum+tax

        PRINT (“Total cost:”+total)

    END MAIN
END Total
```