Raptor Flowcharts - Sequential Problems

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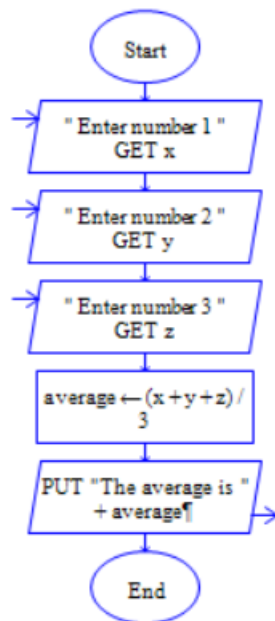
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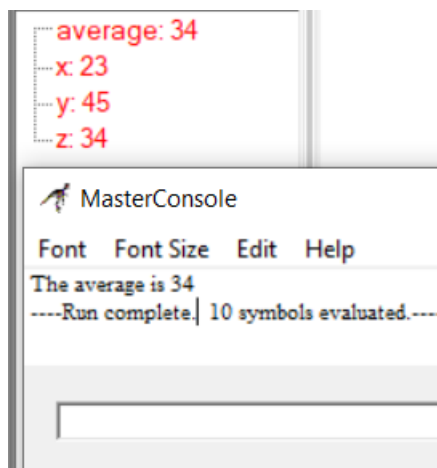# Contents

1 Program to find the average of three numbers

1.1 Program

```
                    ( Start )
                        |
              " Enter number 1 "
                  GET x
                        |
              " Enter number 2 "
                  GET y
                        |
              " Enter number 3 "
                  GET z
                        |
            average ← (x+y+z)/
                      3
                        |
            PUT "The average is "
                + average¶
                        |
                    ( End )
```

1.2 Output

```
average: 34
x: 23
y: 45
z: 34
```

MasterConsole

Font   Font Size   Edit   Help

The average is 34
----Run complete. 10 symbols evaluated.----

2 Program to find the sum and average of three numbers

2.1 Program

```
                    ┌─────────┐
                   (   Start   )
                    └─────────┘
                         │
            ┌────────────────────────┐
   ──────▶ /  " Enter number 1"       /
           /       GET a             /
          └────────────────────────┘
                         │
            ┌────────────────────────┐
   ──────▶ /  "Enter number 2 "       /
           /       GET b             /
          └────────────────────────┘
                         │
            ┌────────────────────────┐
   ──────▶ /  "Enter number 3 "       /
           /       GET c             /
          └────────────────────────┘
                         │
          ┌────────────────────────┐
          │   sum ← a + b + c        │
          └────────────────────────┘
                         │
          ┌────────────────────────┐
          │   avg ← sum / 3          │
          └────────────────────────┘
                         │
            ┌────────────────────────┐
           /  PUT " The sum is " +    / ──────▶
           /       sum¶              /
          └────────────────────────┘
                         │
            ┌────────────────────────┐
           /  PUT "The average is "   / ──────▶
           /       + avg¶            /
          └────────────────────────┘
                         │
                    ┌─────────┐
                   (   End     )
                    └─────────┘
```

2.2 Output

a: 12
avg: 21.6667
b: 43
c: 10
sum: 65

MasterConsole — □ ✕

Font   Font Size   Edit   Help

The sum is 65
The average is 21.6667
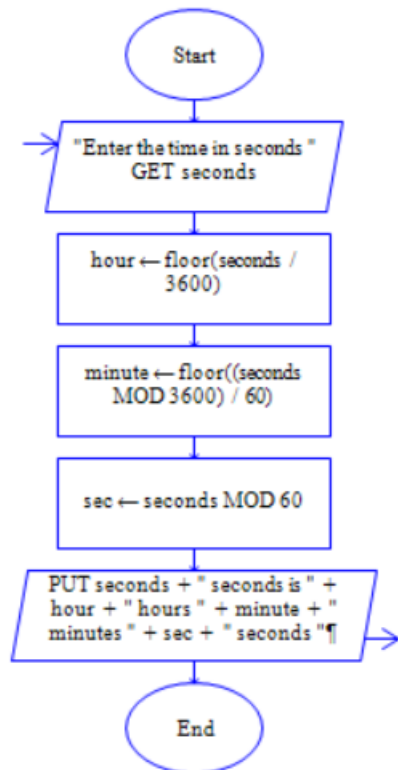----Run complete. 9 symbols evaluated.----

Clear

3 Program to convert the time entered in seconds to hours,minutes and seconds

3.1 Program

3.2 Output

hour: 1
minute: 48
sec: 20
seconds: 6500

MasterConsole — □ ✕

Font   Font Size   Edit   Help

----Run complete. 7 symbols evaluated.----
3661 seconds is 1 hours 1 minutes 1 seconds
----Run complete. 7 symbols evaluated.----
6500 seconds is 1 hours 48 minutes 20 seconds

Clear
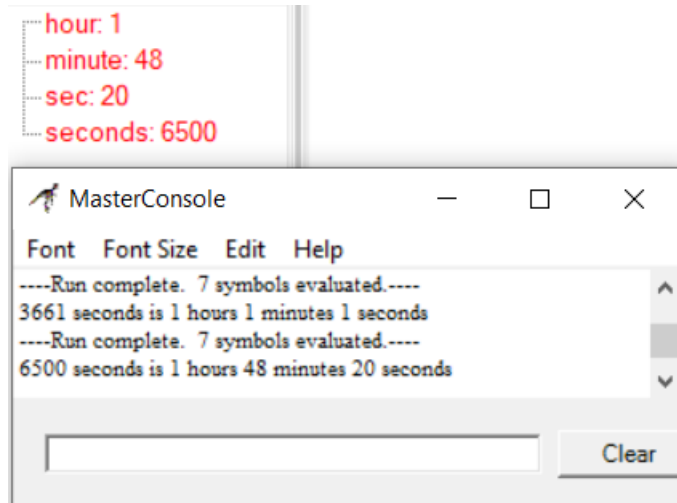
4 Program to print the area and perimeter of a triangle

4.1 Program


```
Start

"Enter the length side 1 "
GET a

"Enter the length side 2 "
GET b

"Enter the length side 3 "
GET c

perimeter ← a + b + c

PUT "perimeter is " +
perimeter¶

s ← perimeter / 2

area ← sqrt ( s * (s - a) * (s -
b) * (s - c))

PUT "Area is " + area¶

End
```

4.2 Output

```
a: 13
area: 134.9667
b: 34
c: 45
perimeter: 92
s: 46
```

MasterConsole

Font   Font Size   Edit   Help

```
perimeter is 92
Area is 134.9667
----Run complete.  10 symbols evaluated.----
```
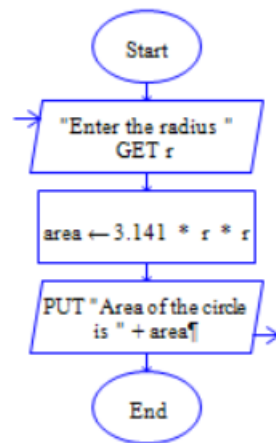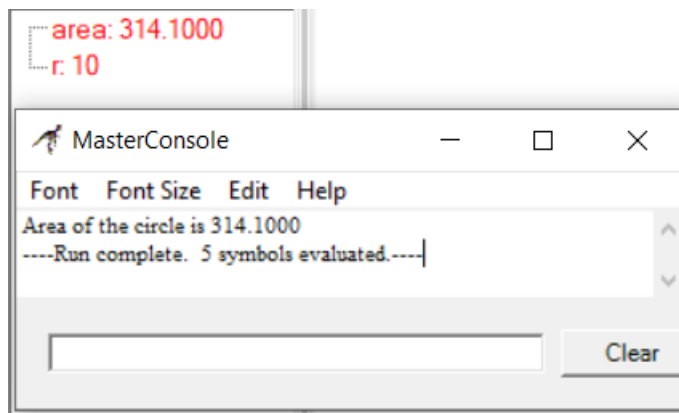
Clear
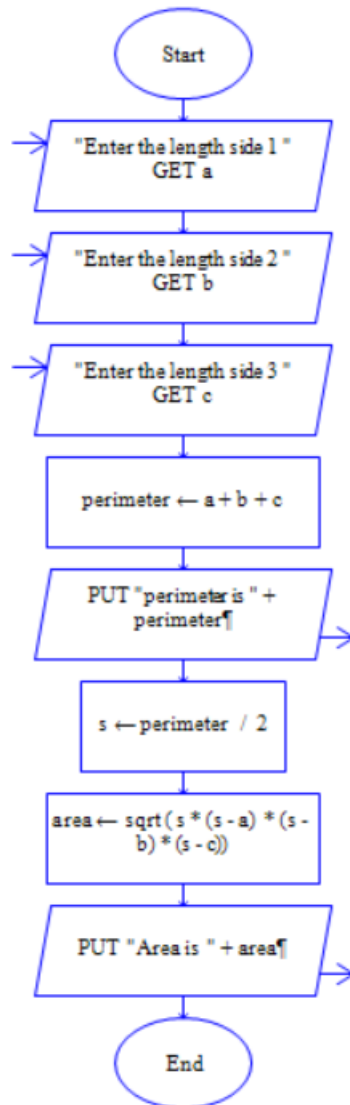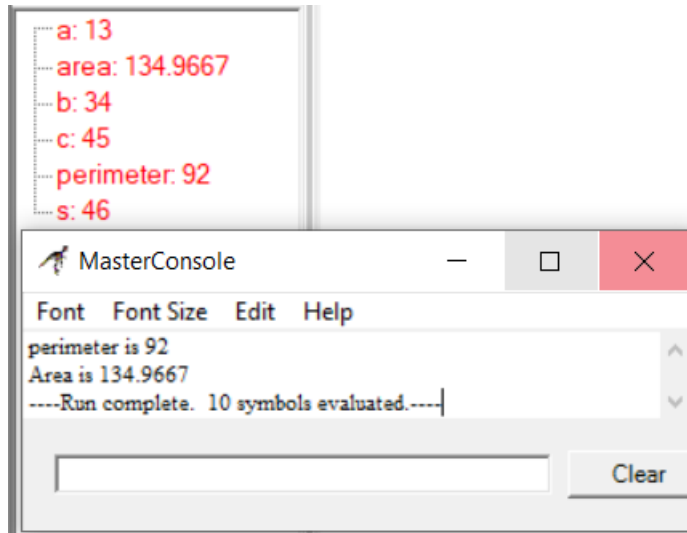
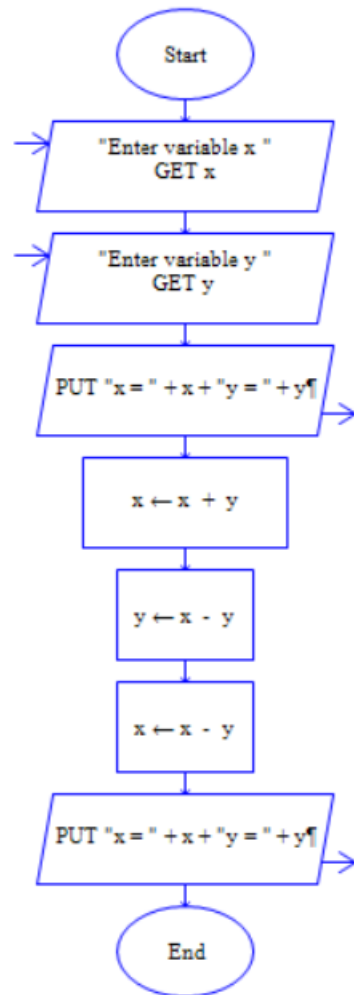# 5 Program to print area of a circle

5.1 Program

5.2 Output

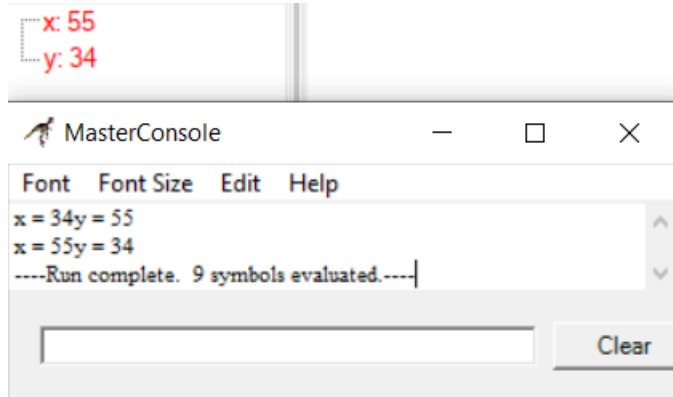# 6 Program to enter two unequal number and interchange them without using third variable
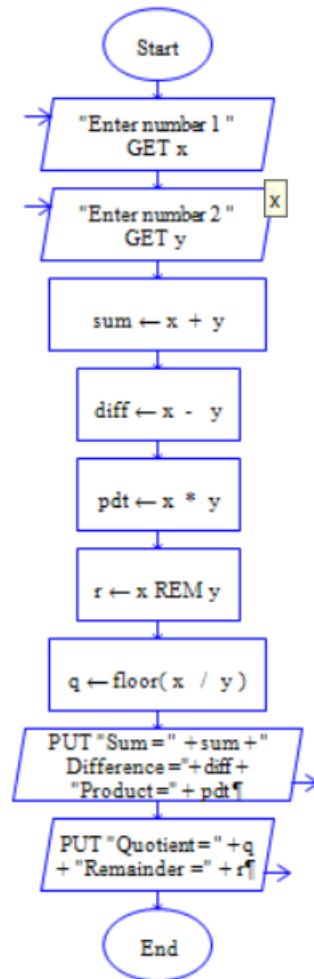
6.1 Program

Start

"Enter variable x "
GET x

"Enter variable y "
GET y

PUT "x = " + x + "y = " + y¶

$x \leftarrow x + y$

$y \leftarrow x - y$

$x \leftarrow x - y$

PUT "x = " + x + "y = " + y¶

End

6.2   Output

x: 55
y: 34

MasterConsole — □ ✕

Font   Font Size   Edit   Help

x = 34y = 55
x = 55y = 34
----Run complete. 9 symbols evaluated.----

Clear
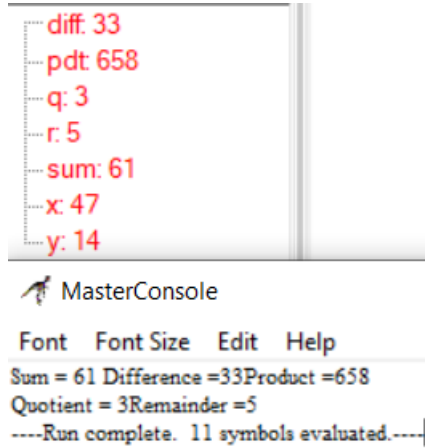
7 Program to display sum, difference, product, quotient and remainder of two unequal numbers

7.1 Program

```
        ( Start )
            |
    "Enter number 1 "
        GET x
            |
    "Enter number 2 "    [X]
        GET y
            |
      sum ← x + y
            |
      diff ← x - y
            |
      pdt ← x * y
            |
      r ← x REM y
            |
    q ← floor( x / y )
            |
    PUT "Sum =" + sum + "
    Difference ="+ diff +
      "Product =" + pdt
            |
    PUT "Quotient =" + q
    + "Remainder =" + r
            |
        ( End )
```

7.2   Output

```
diff: 33
pdt: 658
q: 3
r: 5
sum: 61
x: 47
y: 14
```
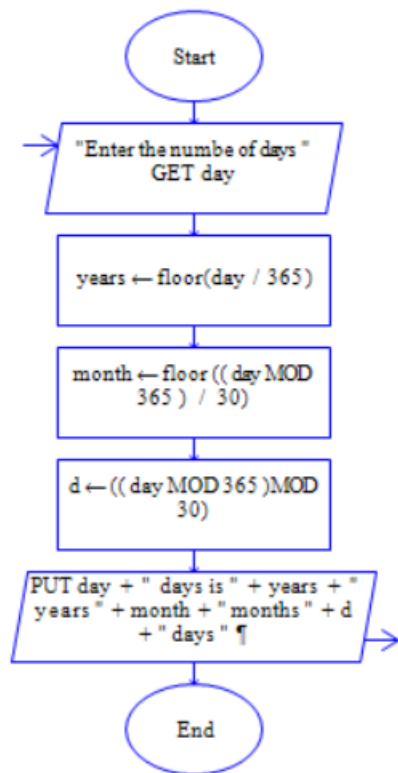
MasterConsole

Font   Font Size   Edit   Help

Sum = 61 Difference =33Product =658
Quotient = 3Remainder =5
----Run complete. 11 symbols evaluated.----

8 Program to enter the number of days and display into years, months and days

8.1 Program

8.2 Output

d: 20
day: 3000
month: 2
years: 8

MasterConsole   —   □   ✕

Font   Font Size   Edit   Help

3000 days is 8 years 2 months 20 days
----Run complete. 7 symbols evaluated.----

Clear