## CH2EXSV

May 28, 2024

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Chapter 2 Exercises
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Algorithm Workbench #2

Enter favorite color and assign the input to variable named color:

variable=expression (=) is the assignment operator

```
[14]: color=input('Enter favorite color')
```

Enter favorite color red

Programming Exercise #7

Calculate MPG by miles driven divided by gallons of gas used and display

First get number miles driven

```
[23]: miles_driven=float(input("Enter number of miles driven:"))
    # Next value assigned for number of gallons used
    gallons_used=float(input("Enter number of gallons used:"))
    # Now calculate the MPG (Miles per gallon)
    MPG = miles_driven / gallons_used
    # Now we can use the print function to display our results
    print("The miles per gallon (MPG) is:", MPG)
```

Enter number of miles driven: 10 Enter number of gallons used: 2

The miles per gallon (MPG) is: 5.0

Programming Excerise #13

Planting Grapevines V=(R-2E)/S

First we start with assigning the value to R (the length of the row in feet)

```
S=int(input("Enter space between vines in feet:"))

# Now we can put it all together in the function we were given above

V= (R-(2 * E)/S)

# Now we can display our results using the print function

print("The number of vines per row:", V)
```

```
Enter length of the row in feet: 15
Enter space used by the end post assemblies in feet: 4
Enter space between vines in feet: 2
The number of vines per row: 11.0
```

[]: