Ch2ExSV

May 27, 2024

Chapter 2 Exercises

Algorithm Workbench #2

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

variable=expression (=) is assignment operator

```
[ ]: color=input('Enter a color:')
```

Programming Exercise #7

MPG=Miles driven/gallons of gas used

Get number of miles driven

```
[ ]: miles_driven=float(input('Enter the number of miles driven:'))
```

Get number of gallons used

```
[ ]: gallons_used=float(input('Enter the number of gallons used:'))
```

Now put it together in the formula:

```
[ ]: MPG=miles_driven/gallons_used
```

We would display the result using the print function:

```
[ ]: print('The millions per gallon is", MPG)
```

Programming Exercise #13

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

First we start with R (length of row in feet)

```
[ ]: R=int(input('Enter length of row in feet:'))
```

Next we look at E (used by end post assembly in feet)

```
[ ]: E=int(input('Enter space used by end post assembly in feet:'))
```

Next we look at S (space between vines in feet)

[ ]:
```
S=int(input('Enter space between vines in feet:'))
```

Now put it all together in the function above:

[ ]:
```
V=(R-(2*E))/S
```

Then we would display it by using the print function:

[ ]:
```
print('The number of vines per row is', V)
```