

ASSIGNMENT 2

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Module: Linear Data

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Output 1

```
// 1
input: four numbers A, B, C, Y
  output: A, B, C dividend by Y. s value
  Start
 Prompt the user to enter the first integer A
 Prompt the user to enter a second integer B
 Prompt the user to enter the third integer C
  x \leftarrow A + B + C
 Display an output prompt that explains the answer as the sum
  Prompt the user to enter the integer Y
 Read the value of Y
 A \leftarrow x / Y
 Write the value of A
 Stop
// 2
  input: one number F
  output: value c
  start
 Prompt the user to enter the integer F
 Read the value of F
  C \leftarrow (F - 32) * (5/9)
 Write the value of C
  Stop
// 3
  input: radius of the sphere, R
  output: volume of the sphere value of V
  start
 INITIALIZE Pi, Pi = 3.14149
  Prompt the user to enter the radius of the sphere
  Read the radius of the sphere, R
  COMPUTE for the volume of the sphere, V ←- (4.0/3.0) * Pi * r3
  WRITE the volume of the sphere, V
  stop
  // 4
  input : distance(km), time(hr)
  output : Speed(km/hr), S
  start
  Prompt the user to enter the distance traveled
  Prompt the user to enter the time taken
  Read the distance, time
  Compute the value of speed, S ←- (distance/time)
 WRITE the speed, S
  Stop
```

Output 2

```
Create an empty list.
List should be empty; isEmpty returns true.

Testing add to end:
List should contain 15, 25, 35, 45.
The list contains 4 entries, as follows:
15 is entry 1
25 is entry 2
35 is entry 3
45 is entry 4

List should be empty; isEmpty returns false.

Testing clear():
List is empty
List should be empty; isEmpty returns true.
```

Output 3

```
Create an empty list.
List should be empty; isEmpty returns true.

Testing add to end:
List should contain 15, 25, 35, 45.
The list contains 4 entries, as follows:
15 is entry 1
25 is entry 2
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List should be empty; isEmpty returns false.

Testing clear():
List is empty
List should be empty; isEmpty returns true.
```

Code Link

https://replit.com/join/oufzhawyzd-laibaasif3