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1.
          a. Know- The censors
          b. Show-Distance
          c. Do-
python
def obstacle_avoidance():
              left sensor = read left sensor()
              center_sensor = read_center_sensor()
              right_sensor = read_right_sensor()
              if min([left_sensor, center_sensor, right_sensor]) < safe_distance:
               if left_sensor < center_sensor and left_sensor < right_sensor:
              turn right slightly()
              elif right_sensor < center_sensor and right_sensor < left_sensor:
              turn left slightly()
              else:
              make_sharp_turn()
               else:
                move_forward()
   2.
          a. Know-The sum
          b. Show-The count
          c. Do-
sum = 0
count = 0
while True:
number = float(input("Enter a number (or 'done' to finish): "))
if number == "done":
 break
sum += number
count += 1
if count > 0:
mean = sum / count
print("The mean of the entered numbers is:", mean)
print("No numbers were entered.")
   3.
          a. Know- The range
          b. Show- a and b
          c. Do-
def fibonacci(n):
 a, b = 0, 1
 print(a, b, end="")
 for i in range(2, n):
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c = a + b
    print(c, end=" ")
    a, b = b, c
# Get user input
num_terms = int(input("Enter the number of terms: "))
# Call the function to print the Fibonacci sequence
fibonacci(num_terms)
   4.
          a. Know- Min and Max values
          b. Show-spread
          c. Do-
def calculate_spread(numbers):
  if not numbers:
    return "Cannot calculate spread on an empty list"
 min_value = min(numbers)
 max value = max(numbers)
 spread = max_value - min_value
 return spread
   5.
          a. Know-height
          b. Show- area
          c. Do-
wall_area = 2 * height * (length + width)
 ceiling area = length * width
 total_area = wall_area + ceiling_area
 gallons needed = (total area / paint coverage)
 gallons_needed = round(gallons_needed)
 total_cost = gallons_needed * paint_price
 return gallons_needed, total_cost
   6.
          a. Know- 4 digit hexadecimals
          b. Show-decimal value
          c. Do-
decimal value = 0
 power = 0
 hex_digits = {}
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for digit in hex_num[::-1]:
    digit_value = int(digit) if digit.isdigit() else hex_digits[digit.upper()]
    decimal_value += digit_value * (16 ** power)
    power += 1

return decimal_value
```