Deluge Practice Question

1. Write a deluge script to calculate the age from given DOB and check whether they are eligible for voting.
2. Write a script to calculate the volume of a cylinder given its radius and height.
3. Write a script to classify a person into age groups based on their age
    i. age less than 13 consider it as **Child**
    ii. Age Between 13 - 20 consider it as **Teenager**
    iii. Age Between 20 - 59 consider as **Adult**
    iv. above 59 consider as **Senior citizen**
4. Write a script to calculate the discount and final amount based on the total purchase amount.
    i. Purchase amount less than 1000, no discount applied
    ii. Purchase amount greater than 1000, 10% discount applied
    iii. Purchase amount greater than 2000, 15% discount applied

5. Write a script to determine loan eligibility based on income and credit score.
    i.Income is greater than 30000 and credit score above 500 is only eligible for loan.

6. Write a script to suggest clothing based on the weather condition.
    i. **Hot:** Temperatures above 30°C
    ii. **Warm:** Temperatures between 15°C and 30°C
    iii. **Cold:** Temperatures below 15°C

7. Write a script to calculate BMI for the given height and weight and also categorise as **Over Weight, Obesity, Under Weight** and **Normal.**
   Underweight: BMI less than 18.5
   Normal: BMI 18.5-24.9
   Overweight: BMI 25-29.9
   Obesity: BMI above 29.9
8. Write a script to calculate the mean and standard deviation of a list of numbers.
   Numbers ={10, 12, 23, 23, 16, 23, 21, 16};

9. Write a script to calculate the total cost of multiple items given their prices and quantities given in a separate list.
   product={"oil","Shamboo","Biscuit"};
   prices = {10,20,30}; // Prices of items
   quantities = {9, 1, 9}; // Quantities of items
10. Write a script to calculate the total time spent on tasks given a list of time durations in hours and minutes.
    Sample Input: durations = {"01:30", "02:45", "01:45"};
    Sample Output: 6 hours and 0 Minutes
11. Generate a number list based on given input.
    Sample Input: 9
    Sample Output: {1,2,3,4,5,6,7,8,9}