# Machine Learning Assignment-1

Github Link: https://github.com/vvnandhan/ML\_ICP\_1/assets/156564801/3d2f46ff-5326-4126-bc69-94b9969654e4

**Question1:**

A screenshot of a computer program

Description automatically generated

**Output:**

A screenshot of a computer

Description automatically generated

**Explanation:**

With the list of 10 students provided firstly the data has been sorted finding maximum and minimum age and then adding the list again and then with the formula we find the median age and average age and then find the range of the ages.

**Question2:**

A screen shot of a computer program

Description automatically generated

**Output:**

**A screenshot of a computer

Description automatically generated**

**Explanation:**

Created an empty dictionary called dog then added the name, colour, breed, legs, age to the dog dictionary, now we have to create a student dictionary adding all details and then knowing length, skills, and modifying by adding more skills and getting the dictionary keys as list, dictionary values as a list.

**Question3:**

A screenshot of a computer program

Description automatically generated

**Output:**

A screen shot of a computer screen

Description automatically generated

**Explanation:**

Creating the siblings names and adding parents name and counting the siblings

**Question4:**

A screenshot of a computer program

Description automatically generated

**Output:**

A screenshot of a computer program

Description automatically generated

**Explanation:**

Finding the length and performing the different set operations like intersection, subset, disjoint, deleting sets and converting the ages of set and comparing the length.

**Question5:**

A screenshot of a computer program

Description automatically generated

**Output:**

A screenshot of a computer

Description automatically generated

**Explanation:**

Calculating the area and circumference of the circle with the given radius and then taking a radius and then calculating the area

**Question6:**

A screenshot of a computer

Description automatically generated

**Output:**

A screen shot of a computer

Description automatically generated

**Explanation:**

Count unique words and use the split method.

**Question7:**

A screenshot of a computer

Description automatically generated

**Output:**

A screenshot of a computer program

Description automatically generated

**Explanation:**

Using thy tab escape sequence.

**Question8:**

A screenshot of a computer program

Description automatically generated

**Output:**  
A screenshot of a computer program

Description automatically generated

**Explanation:**

Finding the radius of the circle

**Question9:**

A screen shot of a computer

Description automatically generated

**Output:**

A screenshot of a computer

Description automatically generated

**Explanation:**

Writing a program to read weight and converting it to kilogram.