**PHASE 2**

**INNOVATION**

Here we use Support Vector Machine Algorithm to analyse the quality of water. Support Vector Machine or SVM is one of the most popular Supervised Learning algorithms, which is used for Classification as well as Regression problems.

**# IMPORTING PACKAGES**

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

from sklearn.preprocessing import StandardScaler

from sklearn.model\_selection import train\_test\_split

from sklearn.metrics import accuracy\_score, classification\_report, confusion\_matrix

**#USING SVM ALGORITHM**

from sklearn.svm import SVC

**CODE EXPLANATION:**

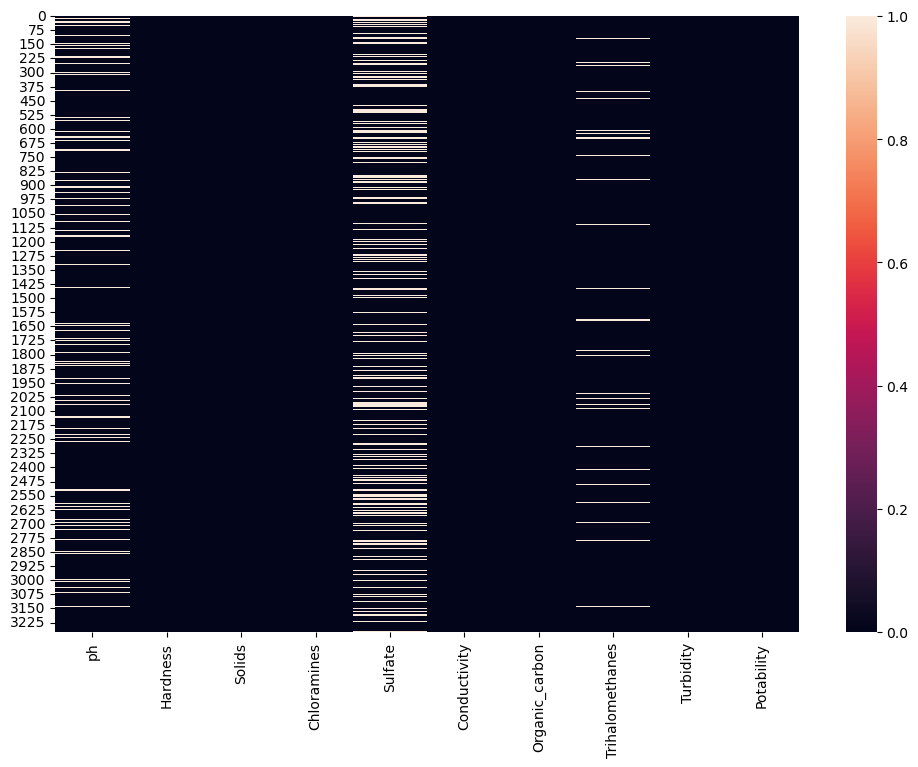
Step 1: Import requires packages for analysing.

Step 2: Then import the required algorithms

Step 3: Visualize using Seaborn.

**DESIGN THINKING**:

* We use various models inorder to see the correlation of water quality among the various samples of water.
* Using the machine learning algorithm, importing the given csv data report and finalizing the water quality.

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