Slip 2

1.1

public class Singleton {

private Singleton() {

}

private static class SingletonHolder {

private static final Singleton INSTANCE = new Singleton();

}

public static Singleton getInstance() {

return SingletonHolder.INSTANCE;

}

}

1.2

#Write a python Program to find all null values in given dataset and remove them

import numpy as np

import pandas as pd

dict = {'first score':[100,90,np.nan,95], 'second score':[30,45,56,np.nan], 'third score':[np.nan,40,80,98]}

df=pd.DataFrame(dict)

print(df)

x=df.isnull()

print(x)

y=df.notnull()

print(y)

z=df.fillna(0)

print(z)

s=df.fillna(method='pad')

print(s)

a=df.fillna(method='bfill')

print(a)

b=df.replace(to\_replace=np.nan,value=-99)

print(b)

c=df.dropna()

print(c)

d=df.dropna(axis=1)

print(d)

new\_data=df.dropna(axis=0)

print(new\_data)

1.3

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Employee Registration</title>

<style>

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

margin: 20px;

}

form {

max-width: 400px;

margin: 20px auto;

background: #fff;

padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

label {

display: block;

margin-bottom: 8px;

}

input {

width: 100%;

padding: 8px;

margin-bottom: 10px;

box-sizing: border-box;

}

button {

background-color: #4caf50;

color: #fff;

padding: 10px 15px;

border: none;

border-radius: 4px;

cursor: pointer;

}

</style>

</head>

<body>

<form id="employeeRegistrationForm">

<label for="dob">Date of Birth:</label>

<input type="date" id="dob" name="dob" required>

<label for="joiningDate">Joining Date:</label>

<input type="date" id="joiningDate" name="joiningDate" required>

<label for="salary">Salary:</label>

<input type="number" id="salary" name="salary" required>

<button type="button" onclick="validateForm()">Submit</button>

</form>

<script>

function validateForm() {

var dob = document.getElementById('dob').value;

var joiningDate = document.getElementById('joiningDate').value;

var salary = document.getElementById('salary').value;

// Validate Date of Birth (DOB)

var dobDate = new Date(dob);

var currentDate = new Date();

if (dobDate >= currentDate) {

alert('Date of Birth should be in the past');

return;

}

// Validate Joining Date

var joiningDateDate = new Date(joiningDate);

if (joiningDateDate > currentDate) {

alert('Joining Date should not be in the future');

return;

}

// Validate Salary

if (isNaN(salary) || salary <= 0) {

alert('Salary should be a positive number');

return;

}

// If all validations pass, you can submit the form or perform other actions.

alert('Form submitted successfully!');

// Uncomment the next line to submit the form

document.getElementById('employeeRegistrationForm').submit();

}

</script>

</body>

</html>