Question Set - 2

Name :

Email :

Phone Number :

Question – 1 :

What are Promises in JavaScript? Explain their purpose with an example of handling asynchronous operations.

Question – 2 :

What is the map() function in JavaScript ?
State the output of the following code.

```
[1, 2, 3].map(num => {
  if (typeof num === 'number') return;
  return num * 2;
});
```

Question – 3 :

What are Higher-Order Components (HOCs) in React? Explain with an example.

Question – 4 :

What are different ways to center a both horizontally and vertically in CSS? Explain any two methods with examples.

Question – 5 :

You have a teams collection where each document contains a members array.
Write MongoDB queries to:
(a) Add a new member to the members array.
(b) Remove a member from the members array.

Question – 6 :

How do you update the status field of a student to "passed" in the students collection where name is "John"? Write the query.

Question – 7 :

What is the use of the useEffect react Hooks ? explain with one example.

Question – 8 :

Write a function to reverse the digits of a given integer number.

Example:

Input : 12345

Output : 54321,

Input : -678

Output : -876

Question – 9 :

Given an array of integers nums, write a function to return the majority element.

The majority element is the one that appears **more than n / 2 times** (where n is the array length).

You can assume that the majority element **always exists** in the array.

Question – 10 :

Which JavaScript functions do we use to perform the following tasks?
- Print "Hello World" once after 3 seconds.
- Print "Good Morning" every 3 seconds continuously.

Also, write the JavaScript code that performs these tasks.