

Question 1 ans:**Query 1:**

```
SELECT Salary.Salary,Employee.EmpName
From Employee
INNER JOIN Salary
ON Employee.EmpId = Salary.EmpId
WHERE Salary IN(SELECT TOP 3 Salary FROM Salary ORDER BY Salary DESC)
```

Query 2:

```
UPDATE Salary SET Salary = 5000 WHERE EmpID IN(
SELECT EmpID FROM Employee WHERE DATEDIFF(year, Date_of_birth, getdate()) > 30)
```

Manual Test cases To check the prime no program:**Program:**

```
package com.demo.com;

public class PrimeNumbers{
public static void main(String[] args) {

    boolean isPrime = true;
    int total=0;

    String primeNumbersFound = "";
    int i1=2;

    while(total<100) {

        isPrime = PrimeNoCheck(i1);
        if (isPrime) {
            primeNumbersFound = primeNumbersFound + i1 + " ";
            ++total;
        }
        i1++;
    }
    System.out.println("1st 100 prime no's are:");
    System.out.println(primeNumbersFound);
}

public static boolean PrimeNoCheck(int numberToCheck) {
    int remainder;
    for (int i = 2; i <= numberToCheck / 2; i++) {
        remainder = numberToCheck % i;
```

```

        if (remainder == 0) {
            return false;
        }
    }
    return true;
}

}

```

Test Cases:

- 1.To validate the 1st 100 primenumbers are displayed while the total is equal to 100.
- 2.To validate If the reminder of the numbers is 0 then return false.
- 3.To validate If the reminder of the numbers is 1 then return true and print first prime numbers.

Test cases scenarios to test promocode:

1. To validate the promocode should be applied for the new users only.
2. To validate the promocode should not be applied on the amount below 1000
3. To validate the promocode should be applied only on amount 1000 and above.
4. To validate the promocode should be given a discount upto 30%.
5. To validate the promocode should not be give discount above 30%
6. To validate the promocode should not be given a discount below the 30%.
7. To validate the promocode should be applied once only.
8. To validate if the promocode is applied on more than 1 product.
9. To validate the promocode should not be applied more than once.
10. To validate the promocode should not be applied on other apps products.
11. To validate the promocode should not be applied after the expiring date.
12. To validate the promocode should be applied after the start date only.
13. To validate the promocode should be applied before the expiry date only.
14. To validate the promode should be given a discount upto 300 rs only on any product whose amount is 1000 or greater than 1000.
15. To validate the promode should not be given a discount above the 300 rs on any product whose amount is 1000 or greater than 1000.
16. To validate the promocode is applied only on allowed products.(Products on which the promocode is allowed to use).
17. To validate the promocode should not be applied on products on which promoode is not allowed to use.(Products on which the promocode is not allowed to use).

18. To validate the promocode discount should be calculated on the total amount only.(Condition:If in case the user adds the 3 products so that the promocode should not be applied on the prizes of 3 products, then it should be applied on the total amount).
19. To validate the promocode should not be disabled if the user applied it but for some reason the user does not give order.
20. To validate the user should be allowed to apply the promocode on others product if he/she already uses it on 1 product but he/she returned that product.
21. Checks for issued coupons are valid or invalid (because some coupon codes may be still under the development stage).
22. Check coupon discounted price in Order Confirmation page also.
23. Check the promocode both in lowercase and uppercase
24. Check the promocode for existing users
25. Check if the user change the mobile number and name
26. Check if the user changes the mobile number after the promocode is applied then the check user is considered old or new.
27. Check if the user is not logged out still he/she is considered a new user.
28. Check if the user applied same promocode on the different products but at the exactly on same time(If user open the website on 2 different pages)
29. Check the promocode should not be applied if the user changes the device current date to below the expiry date.(Condition: If the user changes the device date after the expiry date).
30. Check the other promocode should not be applied on the product on which NEW30 is applied.
31. Check the more than 7 character promocode should not be acceptable.