

QA Assignment1

Q3. 1. Write a program to find the first 100 Prime numbers. Write in either Java or Node.

```
1 package all_program;
2
3
4
5 public class Find_prime_number_between_one_to_hundred {
6
7     public Find_prime_number_between_one_to_hundred() {
8         // TODO Auto-generated constructor stub
9     }
10
11     public static void main(String[] args) {
12         // TODO Auto-generated method stub
13         int n;
14         int status=1;
15         int num=3;
16         System.out.println("First 100 prime numbers are:");
17         System.out.println(2);
18         for ( int i = 2 ; i <=100 ; )
19         {
20             for ( int j = 2 ; j <= Math.sqrt(num) ; j++ )
21             {
22                 if ( num%j == 0 )
23                 {
24                     status = 0;
25                     break;
26                 }
27             }
28             if ( status != 0 )
29             {
30                 System.out.println(num);
31                 i++;
32             }
33             status = 1;
34             num++;
35         }
36     }
37 }
38
```

Output

```
<terminated> Find_prime_number_between_one_to_hundred [Java Application] C:\Program Files (x86)\Java\jre7\bin\javaw.exe (03-Jun-2020)
First 100 prime numbers are:
2
3
5
7
11
13
17
19
23
29
31
37
```

Q.3.2 Now write all possible test cases to test your program. (Manual test cases: covering both positive and negative scenarios)

Answer:-

Test case for Prime Number(positive)

- Let the Prime number be n.
- Divide the number n by 1 and remainder will be 0.
- Divide the number n by n and then remainder will be 0.
- Divide the number n by 2 and remainder not equal to 0.
- Divide the number n by Up to n-1 and if remainder not equal to 0
- Two and Three are only two consecutive natural numbers which are prime too.

Test case for Prime Number(Negative)

- Let the prime number be n.
- If the number n is not divided by 2 and remainder will be 0
- If number n is divided by no1 and its remainder is equal to 0.

Q1.a>Write an SQL query to find nth largest salary along with employee name.

Answer: - SELECT name, salary From Employee e1 WHERE N-1=(SELECT(DISTINCT salary)From Employee e2 WHERE e2.salary>e1.salary)

Q2. b> Write a query to update salary of employees to 5000 whose age is 30+

Answer:- UPDATE Employee SET SALARY =5000 WHERE age >30

Q.2. Write all the possible test scenarios "To apply Promo code".

Answer: - Promo code is a combination of number and character. It is used to give an offer to encourage the customer to purchase on their website.

Positive Test Scenarios:-

- Promo code should always alphanumeric String.
- At a time accept only one promo code.
- Promo code should not accept after expiration date and should display the proper message.
- Promo code should apply on individual product or an entire order.
Ex:- as per in the given question, the minimum shopping should be 1000 and above, then discount will be 30%. So I think the promo code which is **NEW30** would not be applicable because here we all are seen that maximum transaction capacity is only 300Rs.
- Only one promo code can be used on an order.
- Promo code should not be circulate between known or unknown person. It is only used for self benefit.

- Promo code should generate automatically according to the customer transactions status
Ex- suppose I am doing maximum transaction from the “**paytm**” then that time got a promo code that advice me that “This promo code can be used on your next transaction ”

Negative Test Scenarios:-

- Promo code should accept only numeric data or only character data. And display the Error message after click on the submit button.
- Should accept more than one promo code at the multiple sopping. And display the Error message after click on the submit button.
- It should accept the expiration date promo code. And display the Error message after click on the submit button.
- More than one promo code can be used on an order. And display the Error message after click on the submit button.

Edge case Scenarios:-

- Input:- NEW30.
Output;-You get 30% discount on your shopping.
- Input:- NEW30.
Output:-This promo code is already used with your previous shopping.
- Suppose I got another promo code(SUMMER20) which is valid till 24 hours.
But we used after 24 hours or after 2 days so
Input :-SUMMER20
Output:-This promo code has been expired.
- Input :- NEW30 SUMMER20
Output:- more than one promo code should not acceptable at single order.

Q.4 API Automation

Answer:

- Status code :200 ok
- Movie release date: 20/10/2020

Movie Poster URL: "<https://s3-ap-southeast-1.amazonaws.com/assets.paytm.com/images/cinema/KGF-2-App-poster-608x800-a-ca543ffb-3083-4a4f-834a-240085bf3483.jpg>",

-
- Paytm movie code:"09UHTU",
- . No movie code should have more than 1 language form:kannara

Output:

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://apiproxy.paytm.com/v2/movies/upcoming...`
- Status:** 200 OK
- Time:** 3.41s
- Size:** 2.89 KB
- Response Format:** JSON
- Response Body:**

```
1 {
2   "upcomingMovieData": [
3     {
4       "provider_moviename": "K.G.F. Chapter 2",
5       "moviePosterUrl": "https://s3-ap-southeast-1.amazonaws.com/assets.paytm.com/images/cinema/
6       KGF-2-App-poster-608x800-a-ca543ffb-3083-4a4f-834a-240085bf3483.jpg",
7       "movieTitle": "K.G.F. Chapter 2",
8       "movie_name": "K.G.F. Chapter 2",
9       "language": "Kannada",
10      "genre": [
11        "Action",
12        "Drama"
13      ],
14      "releaseDate": "2020-10-23",
15      "rank": 9,
16      "paytmMovieCode": "09UHTU",
17      "isContentAvailable": 1,
18      "contentId": 135612
19    }
20  ]
21 }
```