

## **Bajaj Health Challenge (Qualifier 1)**

Chitkara University | (18th March'24)

### **Objective**

Build and host a REST API (Method: POST) that takes in an array and returns the following:

1. Status
2. User ID
3. Email ID
4. College Roll Number
5. Array for even numbers
6. Array for odd numbers
7. Array for alphabets, converted to uppercase

Please refer to Annexure (A) for request/response samples

### **Preferred Tech Stack**

Node.js / Python / Java

### **Hosting**

Any provider of your choice, if you don't have one already, please use Heroku / Netlify / Vercel / any other provider which supports REST API hosting.

### **Logic**

1. Response should always contain your user\_id (fullname\_dob) in the following format
  - a. "user\_id": {full\_name\_ddmmyyyy}  
E.g.: "user\_id": "john\_doe\_17091999"
2. "is\_success" should be returned in the response to mark the status of operation. It can be true / false
3. Be sure to follow other best practices and handle exceptions gracefully
4. Method: POST
5. Route: /bfhl
  - a. Example: <https://testbfhl.herokuapp.com/bfhl>

### **Submission**

1. Develop the API in any of the languages mentioned in **(II)**
2. Host your API (**refer to III**)
3. Share the API endpoint in the form given to you  
Form Link: <https://forms.office.com/r/91Y30mFyys>
4. Fastest valid submissions will be considered
5. The URL that you submit should have the logic specified above in **"/bfhl"** route

### Example A

#### Request

```
{  
  "data": ["a", "1", "334", "4", "R"]  
}
```

#### Response

```
{  
  "is_success": true,  
  "user_id": "john_doe_17091999", "email": "john@xyz.com",  
  "roll_number": "ABCD123",  
  "odd_numbers": ["1"],  
  "even_numbers": ["334", "4"],  
  "alphabets": ["A", "R"]  
}
```

### Example B

#### Request

```
{  
  "data": ["2", "4", "5", "92", "b"]  
}
```

#### Response

```
{  
  "is_success": true,  
  "user_id": "john_doe_17091999", "email": "john@xyz.com",  
  "roll_number": "ABCD123",  
  "odd_numbers": ["5"],
```

```
"even_numbers": ["2", "4", "92"],
```

```
"alphabets": ["B"]
```

```
}
```

### **Example C**

Request

```
{
```

```
"data": ["A", "ABcD", "DOE"]
```

```
}
```

Response

```
{
```

```
"is_success": true,
```

```
"user_id": "john_doe_17091999", "email": "john@xyz.com",
```

```
"roll_number": "ABCD123",
```

```
"odd_numbers": [],
```

```
"even_numbers": [],
```

```
"alphabets": ["A", "ABCD", "DOE"]
```

```
}
```

**\*DO NOT FORWARD THIS DOCUMENT\***