



# **TypeScript**

## Tahaluf Training Center 2021



شركــة تحالــف الإمــــارات للحـــلـــول الـتـقـنيــة ذ.م.م. TAHALUF AL EMARAT TECHNICAL SOLUTIONS L.L.C.



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## **Exercise** \_1

Create an object which contains information of the users who pays for meals or restaurant .







```
const user: any = {
    firstName: '',
    lname: '',
    orders: [],
    email: '',
    isPremium: false
};
```



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## Exercise \_2

Based on exercise one create array which contains all the system users .

**Exercises** 







```
const systemUsers: any[] = [{
           firstName: 'Ahmad',
           lname: 'mk',
           orders: [],
           email: 't@t.com',
           isPremium: true
           firstName: 'join',
           lname: 'doe',
           orders: [],
           email: 't@t.com',
           isPremium: false }]
```





## Exercise \_3

Based on Exercise one and two create new array, contains Premium users only.





## Solution \_1

```
const premiumUser: any[] = [];
    for (let index = 0;
    index < systemUsers.length; index++) {
        if (systemUsers[index].isPremium)
            premiumUser.push(systemUsers[index])
    }
    console.log(premiumUser)</pre>
```





## Solution \_2

Using filter method

```
const filteredPremiumsUsers =
systemUsers.filter((user) =>
user.isPremium);
console.log(filteredPremiumsUsers);
```





## **Exercise \_4**

Based on Exercise one and two create new array, contains all premium and odd indexes.







```
const filteredPremiumsUsers2
= systemUsers.filter((user, index) => {
  if (user.isPremium && (index + 1 % 2) != 0) {
    return true;
     }
    else
    return false;
    });
    console.log(filteredPremiumsUsers2);
    console.log(systemUsers);
```





## **Exercise \_5**

Based on Exercise one and two create new array, contains all first name and last name.







## Solution \_1







## Solution \_2

Using De-structure of the object







## Solution \_3

Using map method





## **Exercise** \_6

Based on Exercise one and two create new array, contains Update all user and set orders to empty [].











## Exercise \_7

Based on Exercise one and two print all the system users using for Each .









## **Exercise \_8**

Based on Exercise one and two create new array, contains all users who have Premium or user who have orders more than 0.











## Exercise \_9

Based on Exercise one and two print something like contains the user's info //?? Labels dynamic.





```
const userInfo: any = {
    firstName: 'john',
    lastName: 'doe',
    age: '20'
    };

Object.keys(userInfo).forEach((key: any) => {
    console.log(`${key}=${userInfo[key]}`);
```





## Exercise \_10

Based on Exercise one and two get all user first name , last name only if they are premium user











Search about spread with object in Typescript ..



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### **Example:**

```
const userA = { fname: 'john',
lname: 'don' };
    const departmentInfo = {
name: 'web', section: 1 };
    const fullUser = {
        ...userA,
        ...departmentInfo
    };
    console.log(fullUser);
```

