TASK-4

2.)

Salary bonus calculation for the following categories:
 IT - salary * 50%
 Testing - salary * 45%
 Admin - salary * 30%
 others - salary * 20%

Code:-

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>JS Classes and Objects</title>
</head>
<body>
    <script>
        //Class
        class Employee
        {
            //parameterized constructor
            constructor(IT_salary,Testing_salary,Admin_salary,Others_salary)
            {
                this.s1=IT_salary;
                this.s2=Testing_salary;
                this.s3=Admin_salary;
                this.s4=Others_salary;
            }
            //Function
            salary_bonus()
            {
                var b1,b2,b3,b4;
                b1=this.s1+(this.s1*50)/100;
                b2=this.s2+(this.s2*45)/100;
                b3=this.s3+(this.s3*30)/100;
                b4=this.s4+(this.s4*20)/100;
                return "<h2>Initial Salary: </h2> IT Salary: "+this.s1+"<br>
Testing Salary: "+this.s2+"<br> Admin Salary: "+this.s3+"<br> Others Salary:
"+this.s4+ "<hr><h2>Bonus Salary: </h2> <br> IT Bonus: "+b1 + "<br>Testing Bonus:
" + b2+" <br>Admin Bonus: "+b3+"<br> Others Bonus: "+b4;
```
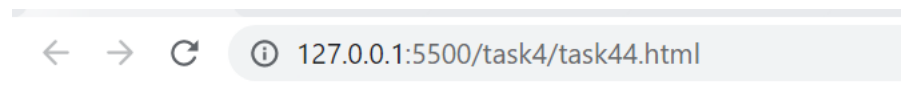
```
            }
        }
        //instance for the class Trainee
        var e1=new Employee(40000,42000,70000,35000);//parameterized constructor
        document.write(e1.salary_bonus());
    </script>

</body>
</html>
```

ScreenShot:-

Initial Salary:

IT Salary: 40000
Testing Salary: 42000
Admin Salary: 70000
Others Salary: 35000

Bonus Salary:

IT Bonus: 60000
Testing Bonus: 60900
Admin Bonus: 91000
Others Bonus: 42000

1.)

Write the following programs using classes and objects in JS

->Login details (username and password) - use html tags to render and fetch the details

Code:-

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>FORM VALIDATION</title>
    <style>
        span {
            color: red;
        }
    </style>
    <script type="text/javascript">

        function registration() {
            var uname = document.getElementById("t3").value;
            var pwd = document.getElementById("t4").value;
            var cpwd = document.getElementById("t5").value;

            //email id expression code
            var pwd_expression = /^(?=.*?[A-Z])(?=.*?[a-z])(?=.*?[0-
9])(?=.*?[#?!@$%^&*-])/;
            var letters = /^[A-Za-z]+$/;
            var filter = /^([a-zA-Z0-9_\.\-])+\@(([a-zA-Z0-9\-])+\.)+([a-zA-Z0-
9]{2,4})+$/;

            if (uname == '') {
                document.getElementById("un").innerHTML = "Enter your username";
                var error = document.getElementById("t3");
                error.style.borderStyle = 'solid';
                error.style.borderColor = 'red';
                //alert('Please enter the user name.');
            }
            else if (!letters.test(uname)) {
                document.getElementById("un").innerHTML = "Username field
required only alphabet characters";
                //alert('User name field required only alphabet characters');
            }
```

```javascript
            else if (pwd == '') {
                document.getElementById("pass").innerHTML = "Enter Password";
                var error = document.getElementById("t4");
                error.style.borderStyle = 'solid';
                error.style.borderColor = 'red';
                //alert('Please enter Password');
            }
            else if (cpwd == '') {
                document.getElementById("cpass").innerHTML = "Re-Enter Password";
                var error = document.getElementById("t5");
                error.style.borderStyle = 'solid';
                error.style.borderColor = 'red';
                //alert('Enter Confirm Password');
            }
            else if (!pwd_expression.test(pwd)) {
                document.getElementById("pass").innerHTML = "Upper case, Lower
case, Special character and Numeric letter are required in Password filed";
                // alert('Upper case, Lower case, Special character and Numeric
letter are required in Password filed');
            }
            else if (pwd != cpwd) {
                document.getElementById("cpass").innerHTML = "Password do not
Match";

                //alert('Password not Matched');
            }
            else if (document.getElementById("t5").value.length < 6) {
                alert('Password minimum length is 6');
            }
            else if (document.getElementById("t5").value.length > 12) {
                alert('Password max length is 12');
            }
            else {
                var error2 = document.getElementById("t3");
                error2.style.borderStyle = 'solid';
                error2.style.borderColor = 'green';
                var error3 = document.getElementById("t4");
                error3.style.borderStyle = 'solid';
                error3.style.borderColor = 'green';
                var error4 = document.getElementById("t5");
                error4.style.borderStyle = 'solid';
                error4.style.borderColor = 'green';
                document.getElementById("un").innerHTML = "";
                document.getElementById("pass").innerHTML = "";
                document.getElementById("cpass").innerHTML = "";
```

```html
                document.getElementById("register").innerHTML = "Registration
Successful";

                // Redirecting to other page or website code.
                //window.location = "https://www.google.com";

            }
        }
    </script>
</head>

<body>
    <!-- Main div code -->
    <div id="main">
        <div class="h-tag">
            <h2><center>Login Form</center></h2>
        </div>
        <!-- create account div -->
        <div class="login">
            <table cellspacing="2" align="center" cellpadding="8" border="0">
                    <td align="right">Enter Username :</td>
                    <td><input type="text" placeholder="Enter Username here"
id="t3" /><br><span id="un"></span></td>
                </tr>
                <tr>
                    <td align="right">Enter Password :</td>
                    <td><input type="password" placeholder="Enter Password here"
id="t4" /><br><span id="pass"></span></td>
                </tr>
                <tr>
                    <td align="right">Enter Confirm Password :</td>
                    <td><input type="password" placeholder="Enter Password here"
id="t5" /><br><span id="cpass"></span></td>
                </tr>
                <tr>
                    <td></td>
                    <td>
                        <input type="submit" value="Login"
onclick="registration()" />
                    </td>

                </tr>
            </table>
            <br>
            <br>
            <p style="text-align:center" id="register"></p>
        </div>
```

```
        <!-- create account box ending here.. -->
    </div>
    <!-- Main div ending here... -->

</body>

</html>
```

ScreenShot:-

Login Form

Enter Username :   Enter Username here
                    Enter your username

Enter Password :   Enter Password here

Enter Confirm Password :   Enter Password here

                    Login

Login Form

Enter Username :   Nikhil

Enter Password :   Enter Password here

Enter Password

Enter Confirm Password :   Enter Password here

Login

Login Form

Enter Username :   Nikhil

Enter Password :   •••••••••

Enter Confirm Password :   •••••••••

Login

You are Logged in Successfully