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**Exercise 1: Calculator**



Fig 1: Output Calculator

<!DOCTYPE html>

<html>

<head>

<title>

Calculator

</title>

<!-- Begins the JavaScript Code -->

<script>

// Use insert() function to insert the number in textview.

function insert(num)

{

document.form1.textview.value = document.form1.textview.value + num;

}

// Use equal() function to return the result based on passed values.

function equal()

{

var exp = document.form1.textview.value;

if(exp)

{

document.form1.textview.value = eval(exp)

}

}

/\* Here, we create a backspace() function to remove the number at the end of the numeric series in textview. \*/

function backspace()

{

var exp = document.form1.textview.value;

document.form1.textview.value = exp.substring(0, exp.length - 1); /\* remove the element from total length ? 1 \*/

}

</script>

<!-- Start the coding for CSS -->

<style>

/\* Create the Outer layout of the Calculator. \*/

.formstyle

{

width: 300px;

height: 330px;

margin: 20px auto;

border: 3px solid skyblue;

border-radius: 5px;

padding: 20px;

text-align: center;

background-color: rgb(202, 219, 239);

}

/\* Display top horizontal bar that contain some information. \*/

h1 {

text-align: center;

padding: 23px;

background-color: skyblue;

color: white;

}

input:hover

{

background-color: white;

}

\*{

margin: 0;

padding: 0;

}

/\* It is used to create the layout for calculator button. \*/

.btn{

width: 50px;

height: 50px;

font-size: 25px;

margin: 2px;

cursor: pointer;

background-color: white;

color: black;

}

/\* It is used to display the numbers, operations and results. \*/

.textview{

width: 223px;

margin: 5px;

font-size: 25px;

padding: 5px;

background-color: white;

}

</style>

</head>

<body>

<div class= "formstyle">

<form name = "form1">

<input class= "textview" name = "textview">

</form>

<center>

<table >

<tr>

<td> <input class = "btn" type = "button" value = "%" onclick = "insert('%')" > </td>

<td> <input class = "btn" type = "button" value = "CE" onclick = "form1.textview.value = ' ' " > </td>

<td> <input class = "btn" type = "button" value = "C" onclick = "backspace()" > </td>

<td> <input class = "btn" type = "button" value = "/" onclick = "insert('/')" > </td>

</tr>

<tr>

<td> <input class = "btn" type = "button" value = "7" onclick = "insert(7)" > </td>

<td> <input class = "btn" type = "button" value = "8" onclick = "insert(8)" > </td>

<td> <input class = "btn" type = "button" value = "9" onclick = "insert(9)" > </td>

<td> <input class = "btn" type = "button" value = "x" onclick = "insert('\*')" > </td>

</tr>

<tr>

<td> <input class = "btn" type = "button" value = "4" onclick = "insert(4)" > </td>

<td> <input class = "btn" type = "button" value = "5" onclick = "insert(5)" > </td>

<td> <input class = "btn" type = "button" value = "6" onclick = "insert(6)" > </td>,

<td> <input class = "btn" type = "button" value = "-" onclick = "insert('-')" > </td>

</tr>

<tr>

<td> <input class = "btn" type = "button" value = "1" onclick = "insert(1)" > </td>

<td> <input class = "btn" type = "button" value = "2" onclick = "insert(2)" > </td>

<td> <input class = "btn" type = "button" value = "3" onclick = "insert(3)" > </td>

<td> <input class = "btn" type = "button" value = "+" onclick = "insert('+')" > </td>

</tr>

<tr>

<td> <input class = "btn" type = "button" value = "." onclick = "insert('.')"> </td>

<td> <input class = "btn" type = "button" value = "0" onclick = "insert(0)" > </td>

<td colspan = 2> <input class = "btn" style = "width: 106px" type = "button" value = "=" onclick = "equal()"> </td>

</tr>

</table>

</center>

</div>

</body>

</html>

**Exercise 2: E-Commerce**



**package** pkg3;

**public** **class** User {

**private** **boolean** role;

**private** String loginID;

**private** String password;

**public** **boolean** isRole() {

**return** role;

}

**public** **void** setRole(**boolean** role) {

**this**.role = role;

}

**public** String getLoginID() {

**return** loginID;

}

**public** **void** setLoginID(String loginID) {

**this**.loginID = loginID;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

**public** **void** verifyUser() {

System.***out***.println("user verified");

}

}

**public** **class** Customer **extends** User {

**private** String Id;

**private** String address;

**private** String phone;

**private** String Email;

**public** String getId() {

**return** Id;

}

**public** **void** setId(String id) {

Id = id;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** String getPhone() {

**return** phone;

}

**public** **void** setPhone(String phone) {

**this**.phone = phone;

}

**public** String getEmail() {

**return** Email;

}

**public** **void** setEmail(String email) {

Email = email;

}

**public** **void** login() {

System.***out***.println("logged in");

}

**public** **void** register() {

System.***out***.println("Registered");

}

**public** **void** updateProfile() {

System.***out***.println("Profile Updated");

}

}

**public** **class** Seller **extends** User {

**private** String Id;

**private** String address;

**private** String phone;

**private** String Email;

**private** **int** sellerRating;

**public** String getId() {

**return** Id;

}

**public** **void** setId(String id) {

Id = id;

}

**public** String getAddress() {

**return** address;

}

**public** **void** setAddress(String address) {

**this**.address = address;

}

**public** String getPhone() {

**return** phone;

}

**public** **void** setPhone(String phone) {

**this**.phone = phone;

}

**public** String getEmail() {

**return** Email;

}

**public** **void** setEmail(String email) {

Email = email;

}

**public** **int** getSellerRating() {

**return** sellerRating;

}

**public** **void** setSellerRating(**int** sellerRating) {

**this**.sellerRating = sellerRating;

}

**public** **void** login() {

System.***out***.println("logged in");

}

**public** **void** register() {

System.***out***.println("Registered");

}

**public** **void** updateProfile() {

System.***out***.println("Profile Updated");

}

}

**public** **class** Payment **extends** Orders {

**private** String Id;

**private** String OrderID;

**private** String details;

**private** **boolean** paid;

**private** **int** total;

**public** String getId() {

**return** Id;

}

**public** **void** setId(String id) {

Id = id;

}

**public** String getOrderID() {

**return** OrderID;

}

**public** **void** setOrderID(String orderID) {

OrderID = orderID;

}

**public** String getDetails() {

**return** details;

}

**public** **void** setDetails(String details) {

**this**.details = details;

}

**public** **boolean** isPaid() {

**return** paid;

}

**public** **void** setPaid(**boolean** paid) {

**this**.paid = paid;

}

**public** **int** getTotal() {

**return** total;

}

**public** **void** setTotal(**int** total) {

**this**.total = total;

}

**public** **void** sendOtp() {

System.***out***.println("Send in otp");

}

**public** **void** confirmTransaction() {

System.***out***.println("transaction confirmed");

}

**public** **void** getPaymentDetails() {

System.***out***.println("payment details... ");

}

**public** **void** makeTransaction() {

System.***out***.println("Transaction making....");

}

}

**import** java.util.Date;

**public** **class** Product **extends** Seller{

**private** String productID;

**private** String productName;

**private** String sellerID;

**private** **int** productCost;

**private** Date postedDate;

**public** String getProductID() {

**return** productID;

}

**public** **void** setProductID(String productID) {

**this**.productID = productID;

}

**public** String getProductName() {

**return** productName;

}

**public** **void** setProductName(String productName) {

**this**.productName = productName;

}

**public** String getSellerID() {

**return** sellerID;

}

**public** **void** setSellerID(String sellerID) {

**this**.sellerID = sellerID;

}

**public** **int** getProductCost() {

**return** productCost;

}

**public** **void** setProductCost(**int** productCost) {

**this**.productCost = productCost;

}

**public** Date getPostedDate() {

**return** postedDate;

}

**public** **void** setPostedDate(Date postedDate) {

**this**.postedDate = postedDate;

}

**public** **void** addToCart() {

System.***out***.println("Added to cart...");

}

**public** **void** sellProduct() {

System.***out***.println("sell prodeuct....");

}

**public** **void** getProductDetails() {

System.***out***.println("take product details....");

}

**public** **void** buyProduct() {

System.***out***.println("Product bought.....");

}

}

**import** java.util.Date;

**public** **class** ShoppingCart **extends** Customer{

**private** Date created;

**public** **void** n() {

Customer n = **new** Customer();

n.login();

}

**public** Date getCreated() {

**return** created;

}

**public** **void** setCreated(Date created) {

**this**.created = created;

}

**public** **void** addCartItem() {

System.***out***.println("Add Cart Items....");

}

**public** **void** checkOut() {

System.***out***.println("Checkout.....");

}

**public** **void** viewCartDetails() {

System.***out***.println("view cart details....");

}

**public** **void** updateQuantity() {

System.***out***.println("update the quantity.....");

}

}

**public** **class** Reviews **extends** Customer {

**private** String reviewID;

**private** String customerID;

**private** String reviewContent;

**private** String parentID;

**private** String productID;

**private** **int** rating;

**public** String getReviewID() {

**return** reviewID;

}

**public** **void** setReviewID(String reviewID) {

**this**.reviewID = reviewID;

}

**public** String getCustomerID() {

**return** customerID;

}

**public** **void** setCustomerID(String customerID) {

**this**.customerID = customerID;

}

**public** String getReviewContent() {

**return** reviewContent;

}

**public** **void** setReviewContent(String reviewContent) {

**this**.reviewContent = reviewContent;

}

**public** String getParentID() {

**return** parentID;

}

**public** **void** setParentID(String parentID) {

**this**.parentID = parentID;

}

**public** String getProductID() {

**return** productID;

}

**public** **void** setProductID(String productID) {

**this**.productID = productID;

}

**public** **int** getRating() {

**return** rating;

}

**public** **void** setRating(**int** rating) {

**this**.rating = rating;

}

**public** **void** addReview() {

System.***out***.println("Review Added....");

}

**public** **void** deleteReview() {

System.***out***.println("Review Deleted...");

}

**public** **void** editReview() {

System.***out***.println("Edit the review....");

}

}

**import** java.util.Date;

**public** **class** Orders {

**private** String Id;

**private** String sellerID;

**private** String customerId;

**private** String productId;

**private** String totalAmountId;

**private** String addressId;

**private** String deliveryStatus;

**private** Date orderDate;

**private** Date deliveredDate;

**public** String getId() {

**return** Id;

}

**public** **void** setId(String id) {

Id = id;

}

**public** String getSellerID() {

**return** sellerID;

}

**public** **void** setSellerID(String sellerID) {

**this**.sellerID = sellerID;

}

**public** String getCustomerId() {

**return** customerId;

}

**public** **void** setCustomerId(String customerId) {

**this**.customerId = customerId;

}

**public** String getProductId() {

**return** productId;

}

**public** **void** setProductId(String productId) {

**this**.productId = productId;

}

**public** String getTotalAmountId() {

**return** totalAmountId;

}

**public** **void** setTotalAmountId(String totalAmountId) {

**this**.totalAmountId = totalAmountId;

}

**public** String getAddressId() {

**return** addressId;

}

**public** **void** setAddressId(String addressId) {

**this**.addressId = addressId;

}

**public** String getDeliveryStatus() {

**return** deliveryStatus;

}

**public** **void** setDeliveryStatus(String deliveryStatus) {

**this**.deliveryStatus = deliveryStatus;

}

**public** Date getOrderDate() {

**return** orderDate;

}

**public** **void** setOrderDate(Date orderDate) {

**this**.orderDate = orderDate;

}

**public** Date getDeliveredDate() {

**return** deliveredDate;

}

**public** **void** setDeliveredDate(Date deliveredDate) {

**this**.deliveredDate = deliveredDate;

}

}