

Experiment - 14

Aim: Define complex class in Ruby and do write methods to carry operations on complex objects

Program:

```
class Complex
    attr_accessor :real, :imag
    def read
        @real = gets.to_f
        @imag = gets.to_f
    end
    def add(other)
        ob = Complex.new
        ob.real = @real + other.real
        ob.imag = @imag + other.imag
        return ob
    end
    def subtract(other)
        ob = Complex.new
        ob.real = @real - other.real
        ob.imag = @imag - other.imag
        return ob
    end
    def multiply(other)
        ob = Complex.new
        ob.real = (@real * other.real) - (@imag * other.imag)
        ob.imag = (@real * other.imag) + (@imag * other.real)
        return ob
    end
    def divide(other)
        t = Complex.new
        ob = Complex.new
        t.imag = -other.imag
        r = (other.real).abs
        l = (other.imag).abs
        d = (r * r) + (l * l)
        ob.real = ((@real * other.real) - (@imag * t.real)) / d
        ob.imag = ((@real * t.imag) + (@imag * other.real)) / d
        return ob
    end
end
```

Output:

\$ ruby Complexorb

Enter first number

10

20

Enter second number

30

40

FIRST number: $10 + 20i$

Second number: $30 + 40i$

=====

Addition: $40 + 60i$

Subtraction: $-20 - 20i$

Product: $-500 + 1000i$

Division: $0 + 0i$

=====

Experiment - 16

... and program takes set name.

Font styles: html

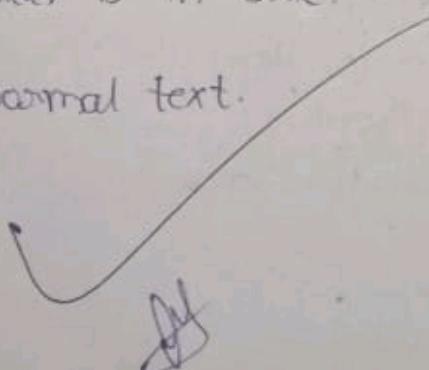
```
<html>
  <head>
    <title>Usage of different font, styles & colors!
    <link rel="stylesheet" type="text/css" href="Styles.css"
  </head>
  <body>
    <h1> This header is in red </h1>
    <h2> This header is in blue </h2>
    <p> This is normal text </p>
  </body>
</html>
```

Output:

THIS HEADER IS IN RED

This header is in blue.

This is normal text.



6. Write an XML file which will display the book information which includes the following

- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name
- 5) Edition
- 6) Price

BOOK.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="library.css"?>
<!DOCTYPE Catalog [ 
    <!ELEMENT Book (Title, Author, Publication, Edition,
                    ISBN, Price)>
    <!ELEMENT Title (#PCDATA)>
    <!ELEMENT Author (#PCDATA)>
    <!ELEMENT Publication (#PCDATA)>
    <!ELEMENT Edition (#PCDATA)>
    <!ELEMENT ISBN (#PCDATA)>
    <!ELEMENT Price (#PCDATA)>
]
```

]>

```
<catalog>
<Book>
<Title>XML</Title>
<Author>cse</Author>
<Publication>VVIT</Publication>
<Edition>Fifth</Edition>
<ISBN>11111</ISBN>
<Price>100</Price>
</Book>
```

```
<BOOK>
<Title>CSS</Title>
<Author>cse</Author>
<Publication>VVIT</Publication>
<Edition>sixth</Edition>
<ISBN>22222</ISBN>
<Price>200</Price>
```

RightFrame.html

```
<!DOCTYPE html>
<html>
<head> <title> Right Frame </title> </head>
<body align="center">
    <p> Description of website </p>
</body>
</html>
```

Description of the website

Main.html

```
<html>
<head>
<frameset cols="15%, *">
    <frame src="topframe.html" name="topframe"> </frame>
    <frameset cols="15%, *">
        <frame src="leftframe.html" name="leftframe"> </frame>
        <frame src="rightframe.html" name="rightframe"> </frame>
    </frameset>
</head> </html>
```

Login		ONLINE BOOK STORE			
Home	Login	Registration	Catalogue	Cart	
CSE ECE EEE					
		Description of website			

Experiment No: 3

Date:

AIM: The catalogue page should contain the details of all objects available in website in a table
 The details should contain the following

1. snapshot of coverpage
2. Author Name
3. publisher
4. Price
5. Add to cart button

Code:

```

<html>
<head> <title> catalogue </title> </head>
<body>
<table border="1" width=100%. height=100%>
<br>
<td>  <td>
<td align="center"> Book Name: XML Book <br> Author Name
<br> Winston <br> Publisher: Wiley <br>
<td>
<td align="center"> Price: $50 <td>
<td align="center">
<input type="button" value="Add to cart" />
</td>
</tr>
<tr>
<td>  <td>
<td align="center"> Book Name: Java2 <br> Author Name:
<br> Watson <br> Publisher: Publications <br>
</td>

```

```
<tr><td> DATE OF BIRTH </td>
<td> <select name="day">
<option value="day" DAY </option>
<option value="1" > 1 </option>
<option value="2" > 2 </option>
|
<option value="30" > 30 </option>
<option value="31" > 31 </option>
</select>
<select name="month">
<option value="month" MONTH </option>
<option value="Jan" > January </option>
<option value="feb" > February </option>
|
<option value="dec" > December </options>
</select>
<select name="Year">
<option value="Year" > YEAR </options>
<option value="1986" > 1986 </option>
<option value="1987" > 1987 </option>
|
<option value="2013" > 2013 </option>
<option value="2014" > 2014 </option>
</select> </td> </tr>
<tr><td> LANGUAGE KNOWN </td>
<td> <input type="checkbox" value="eng" name="lang" /> ENGLISH
<input type="checkbox" value="tel" name="lang" />
TELUGU
```

```

<input type="checkbox" value="hin" name="lang" /> HINDI
<input type="checkbox" value="tam" name="lang" /> TAMIL
</td> </tr>
<tr>
  <td> ADDRESS </td>
  <td> <textarea name="addr" cols="25" rows="5" /> </td>
</td> </tr>
<tr> <td colspan="2" align="center"> <input type="submit" value="SUBMIT" />
<input type="reset" value="RESET" /> </td>
</tr>
</table>
</form>
</td> </tr> </table>
</center>
</body> </html>

```

Registration Page

NAME	<input type="text"/>		
PASSWORD	<input type="password"/>		
EMAIL ID	<input type="text"/>		
PHONE NUMBER	<input type="text"/>		
GENDER	<input type="radio"/> MALE	<input type="radio"/> FEMALE	
DATE OF BIRTH	<input type="text"/> DAY	<input type="text"/> MONTH	<input type="text"/> YEAR
LANGUAGES KNOWN	<input type="checkbox"/> ENGLISH <input type="checkbox"/> TELUGU <input type="checkbox"/> HINDI <input type="checkbox"/> TAMIL		
ADDRESS	<input type="text"/>		
<input type="button" value="SUBMIT"/>		<input type="button" value="RESET"/>	

login.html

```
# login the users of website
#login.html
<html>
<head>
<title>sign-in page</title>
</head><body>
<center>
<form name="F1" action = "login.php" method = "post"
onsubmit = "return validate()">
<table border = "3">
<tr><td><table cellspacing = "10">
<tr><td> colspan = "2" align = "center">
<th>< us login page </us></td></th>
<tr><td> User name </td><td><input type = "text" name = "uname"
size = "15" ></td></tr><tr>
<td> Password </td><td><input type = "password" name = "pass"
size = "15" ></td></tr>
<tr><td colspan = "2" align = "center">
<input type = "submit" value = "submit">
<input type = "reset" value = "cancel"></td></tr>
</table></td></tr></table>
</form>
</center></body>
</html>
```

Exp. no. 21

Date:

Aim: PHP program for registering users of a website and login

Program:

```

##registering users of a website
<html>
<head><title>Registration page</title></head>
<body><center>
<h3 align="center"><u>Registration Page</u></h3>
<table border="3">
<tr><td>
<form name="f1" action="insert.php" method="post">
<table cellspacing="10" cellpadding="5">
<tr><td>Name</td><td><input type="text" size="30" name="uname">
</td></tr><tr><td>Password</td><td>
<input type="password" size="30" name="pass"/></td></tr>
<tr><td>Email ID</td><td><input type="text" size="30" name="email">
</td></tr>
<tr><td>Phone number</td><td><input type="text" size="15" name="phone"/>
</td></tr>
<tr><td>gender</td><td><input type="radio" name="gender" value="male"/> MALE<input type="radio" name="gender" value="female"/> Female</td></tr>
<tr><td>DOB</td>
<td><select name="day">
<option value="day"> DAY </options>
<option value="1"> 1 </options>
<br/>
<option value="31"> 31 </option></select>
<select name="month">
<option value="month"> MONTH </options>

```

output:

Login Page

Username

Password

login.php

```
<?php  
$conn = mysqli_connect("localhost", "root", "", "18B01A05C3");  
if (!$conn)  
echo "<h4> Connected to Database . . . !!";  
if (!$conn) else  
echo "<h4> Failed to Connect: ".mysqli_error()." </h4>";  
if (isset($_POST['uname']))  
$pass = $_POST['Pass'];  
echo "<br/><br/><br/><p align='right'><a href =  
"login.html">[Login Page] </a></p>";  
$res = mysqli_query($conn, "select * from rollno where  
uname = '$uname' and pass = '$pass' ");  
$count = mysqli_num_rows($res);  
if ($count) {  
    echo "<br/><br/><br/><h2 align='center'>Welcome  
$uname!!!!</h2>";  
} else {  
    echo "<br/><br/><br/><h2 align='center'>Invalid Username/  
Password / Try again!!!!</h2>";  
}  
?  
?
```

Regd. No. 18B01A05H3

Date:

Aim:

Catalogue1.php

```
<?php
$conn = mysqli_connect("localhost", "root", "root", "18B01A05H3");
if ($conn)
    echo "connected to database";
else
    echo "Failed to connect".mysqli_error();
if (isset($_POST['bname'])){
    $auth = $_POST['bname'];
    $publ = $_POST['auth'];
    $isbn = $_POST['isbn'];
    $edi = $_POST['edi'];
    $cost = (float) $_POST['cost'];
    $qty = (int) $_POST['qty'];
    echo '<br><br><p align="right"><a href="catalogue.
                                         html">
                                         [book entry page]</a></p>';
    $query1 = "INSERT INTO catalogue values('$bname', '$auth',
                                             '$publ', '$isbn', '$edi', '$cost', '$qty')";
    mysqli_query($conn, $query1);
    $query2 = "select * from catalogue";
    $result = mysqli_query($conn, $query2);
    ?>
```

```
<td align = "center"><?php echo $row['cost']; ?> <td>
<td align = "center"><?php echo $row['qty']; ?> <td>
<tr>
<td> PHP 32 </td>
<td> </td>
<td> </td>
<td> </td>
<td> </td>
```

Regd. No.

catalogue.html

```
<html>
<body>
<center>
<font face="verdana" size="4">
<table border="1" cellpadding="0" cellspacing="0">
<tr>
    <th colspan="8" align="center">books list </th>
<tr>
    <th> sno </th>
    <th> title </th>
    <th> Author </th>
    <th> publication </th>
    <th> ISBN </th>
    <th> cost </th>
    <th> quantity </th>
<tr>
<tbody>
<tr>
    <td align="center" ><?php echo $num++ ; ?></td>
    <td align="left" ><?php echo $row['bname'] ; ?></td>
    <td align = "left"><?php echo $row['auth'] ; ?></td>
    <td align = "left"><?php echo $row['publ'] ; ?></td>
    <td align = "center"><?php echo $row['isbn'] ; ?></td>
    <td align = "center" ><?php echo $row['edi'] ; ?></td>
```

Date:

Experiment No:4

Aim: Create a registration form with the following fields
 Name, Password, Email id, Phone number, Sex, DOB, languages
 known, Address

Program:

```

<html>
<head>
<title> Registration Page </title> </head>
<body>
<center>
<h3 align="center"> <u> Registration Page </u> <h3>
<table border="3">
<tr> <td>
<form name="f1" action="" method="post" onsubmit="">
<table cellspacing="10" cellpadding="5">
<tr>
<td> NAME <td> <td> input type="text" name="Uname" />
<td> <th>
<tr> <td> PASSWORD <td> <td> input type="password"
size="30" name="pass" /> <td> <tr>
<td> E-MAIL ID <td> <td> input type="text" size=130
name="email" /> <td> <tr>
<td> PHONE NUMBER > <td>
<td> <input type="text" size="15" name="phone" />
<td> <td>
<tr> <td> GENDER <td> <td> <input type="radio"
name="gen" value="m" /> MALE
<input type="radio" name="gen" value="f" /> FEMALE <td>
<td>

```

```
<td align="center"> Price: $35.5 </td>
<td align="center">
    <input type="button" value="Add to cart">
</td>
</tr>
<tr>
    <td> img = "Book3.jpg" alt = "BOOK3 logo" </td>
    <td align="center"> Book Name: AI <br>
        Author Name: SRussel <br>
        Publisher: Princeton hall <br>
    </td>
    <td align="center"> Price: $90 </td>
    <td align="center">
        <input type="button" value="Add to cart">
    </td>
</tr>
<tr>
    <td> img = "Book4.jpg" alt = "Book4 logo" </td>
    <td align="center"> Book Name: HTML in 24 hrs <br>
        Author Name: Sam Peter <br>
        Publisher: Sam publications <br>
    </td>
    <td align="center"> Price: $100 </td>
    <td align="center">
        <input type="button" value="Add to cart">
    </td>
</tr>
</table>
</body>
</html>
```

output:

BOOK1 Logo	BOOK Name: XML Book Author Name: Linstor Publisher: wiley	Price: \$ 50	Add to cart
BOOK2 Logo	BOOK Name: Java2 Author Name: Watson Publisher: B Publications	Price: \$ 35.5	Add to cart
BOOK3 Logo	BOOK Name: AI Author Name: S Russel Publisher: Princeton hall	Price: \$ 90	Add to cart
BOOK4 Logo	BOOK Name: HTML M Author Name: Sam, Peter Publisher: Sam publications	Price: \$ 100	Add to cart

Experiment NO: 2

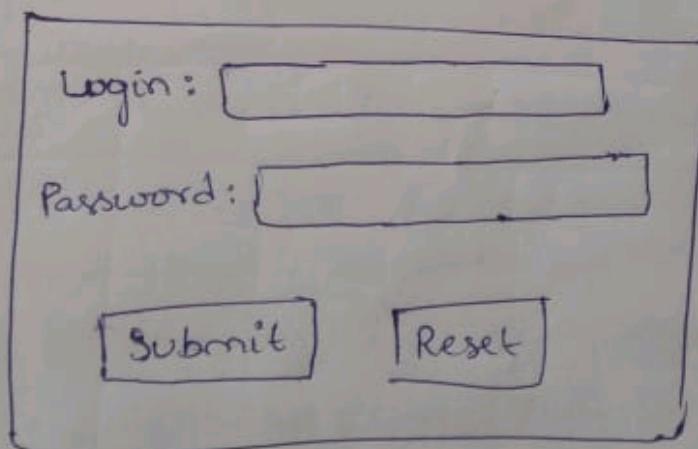
Date:

AIM:

Program:

```
<html>
<head> <title> login </title> </head>
<body>
  <table border="1" design="center">
    <tr>
      <label for="l"> login: </label>
      <input type="text" name="logon" id="l">
    </tr> <br>
    <br>
    <input type="button" value="Submit">
    <input type="button" value="Reset">
  </table>
</body>
</html>
```

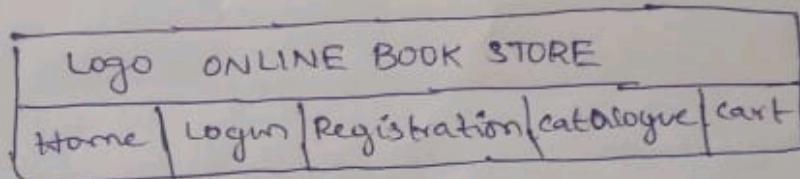
output:



```

<tr>
  <td align="center"><a href="home.html" target="rightFrame">
    Home</a></td>
  <td align="center"><a href="login.html" target="rightFrame">
    Login</a></td>
  <td align="center"><a href="catalogue.html" target="rightFrame">
    catalogue</a></td>
  <td align="center"><a href="register.html" target="rightFrame">
    Registration</a></td>
  <td align="center"><a href="cart.html" target="rightFrame">
    Cart </a></td>
</tr> </table> </body> </html>

```



left frame.html

```

<!DOCTYPE html>
<html>
<head>
  <title>left Frame </title>
</head>
<body>
  <a href="cse.html" target="rightFrame">CSE</a><br>
  <a href="ece.html" target="rightFrame">ECE</a><br>
  <a href="eee.html" target="rightFrame">EEE</a><br>
</body>
</html>

```



Date:

Experiment No: 1

AIM: To design the following static web Pages required for an online book store

Home Page:

The static home page must contain three frames

TOP frame: logo and the college name and links to Home Page, Login Page, Registration Page, catalogue page and Cart Page

Left frame: At least four links for navigation which will display the catalogue of respective links

Eg: when you click the link "MCA" the catalogue for MCA Books should be displayed on the Right frame

Right frame: The pages to the links in the left frame must be loaded here. Initially this page contains description of the website

CODE:

1. TOP frame.html

```
<!DOCTYPE html>
<html>
<head>
    <title>TOP Frame </title>
</head>
<body>
    <table border="1" width="100%">
        <tr>
            <td align="center">
            <td width=80% colspan="4" align="center">ONLINE BOOK
                STORE </td>
        </tr>
    </table>
</body>
</html>
```

```
Author
{
    font-family: arial;
    color: magenta
}

Publication, Edition, ISBN, Price
{
    display: block;
    font-family: arial;
    color: black;
    font-size: 10pt;
    margin-left: 40pt
}
```

Output:

XML CSE

VVIT

Fifth

11111

100

CSS CSE

VVIT

sixth

22222

200

Java CSE

VVIT

Third

33333

8000

HTML CSE

VVIT

Fifth

44444

400

```
< /Book >  
< Book >  
  < Title > Java < /Title >  
  < Author > Cse < /Author >  
  < Publication > Wit < /Publication >  
  < Edition > Third < /Edition >  
  < ISBN > 33333 < /ISBN >  
  < Price > 300 < /Price >  
< /Book >  
< Book >  
  < Title > HTML < /Title >  
  < Author > Cse < /Author >  
  < Publication > Vnit < /Publication >  
  < Edition > Fifth Edition < /Edition >  
  < ISBN > 44444 < /ISBN >  
  < Price > 400 < /Price >  
< /Book >  
< /Catalog >
```

library.css

Catalog

```
{  
  font-family: arial;  
  color: blue;  
  font-size: 16pt;  
}
```

Book

```
{  
  font-family: times new roman;  
  color: blue;  
  table-layout: auto;  
  font-size: 14pt  
}
```

Title

```
{  
  font-family: arial;  
  color: green;  
  margin-left: 20pt;  
  font-size: 12pt  
}
```

Experiment No: 17

Experiments

Aim: Design a web page using CSS which includes the following. We different font, styles. In the style definition you define how each selector should work. Then in the body of your pages, you refer to these selectors to activate the style sheets.

Program:

style.css

h1 {

color: red;
font-family: castellar;
font-size: 22pt;
text-decoration: underline;

y

h2 {

color: ~~red~~ blue;
font-family: chiller;
font-size: 18pt;
text-decoration: overline;

y

p {

color: magenta;
font-family: Tropicana MS;
font-size: 14pt;
font-style: italic;

y

```
def disp
    if @imag<0
        puts "#{@real}#{@imag}i"
    else
        puts "#{@real}#{@imag}i"
    end
end

t1 = Cmplx.new
t2 = Cmplx.new
t3 = Cmplx.new
t4 = Cmplx.new
t5 = Cmplx.new
t6 = Cmplx.new

puts "Enter first number"
t1.read
puts "Enter second number"
t2.read
print "FIRST numbers"
t1.disp
print "Second numbers"
t2.disp
print "=====\\n"
print "Addition:"
t3 = t1.add(t2)

t3.disp
print "Subtraction:"
t4 = t1.subtract(t2)

t4.disp
print "Product:"
t5 = t1.multiply(t2)

t5.disp
print "division:"
t6 = t1.divide(t2)

t6.disp
print "=====\\n"
```

```

<option value="1">January</option>
<option value="12">December</option></select>
<select name="Year">
<option value="Year">Year</option>
<option value="1986">1986</option>
<option value="2008">2008</option></select></td></tr>
<tr><td>address</td>
<td><textarea name="address" cols="25" rows="5"></textarea>
</td></tr>
<tr><td colspan="2" align="center"><input type="submit" value="SUBMIT"/>
<input type="reset" value="RESET"/></td></tr></table>
</form></td></tr></table></center></body></html>

```

insert.php :-

```

<?php
$servername = "localhost";
$username = "root";
$password = "";
$tablename = "roll_no";
$conn = new mysqli($servername, $username, $password, $tablename);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$uname = $_POST['uname'];
$pass = $_POST['Pass'];
$email = $_POST['email'];

```

```

$phno = $_POST['Phone'];
$gender = $_POST['gender'];
$day = (int) $_POST['day'];
$month = (int) $_POST['month'];
$year = (int) $_POST['Year'];
$dob = " $day - $month - $year ";
$teut = $_POST['address'];
$address = str_replace ("ln", " ", $teut);
$sql = " INSERT INTO student name (uname, pass, email, phone,
gender, dob, address) VALUES ('$uname', '$pass', '$email', '$phno',
'$gender', '$dob', '$address') ";
if ($conn->query($sql)) == TRUE)
    echo " New record created successfully ";
}
else
    echo " Error: ", $sql, "\n", $conn->error;
}
$conn->close();
?>

```

Output:

Name	<input type="text"/>		
Password	<input type="text"/>		
Email ID	<input type="text"/>		
Phone number	<input type="text"/>		
Gender	<input type="radio"/> Male	<input type="radio"/> Female	<input type="checkbox"/>
Date of Birth	<input type="text"/> DAY	<input type="text"/> MONTH	<input type="text"/> YEAR
Address	<input type="text"/>		
<input type="button" value="SUBMIT"/> <input type="button" value="RESET"/>			

New record created successfully