

1.a) write an html program to demonstrate the use of heading tags in HTML.

Program

```
<html>
<head>
<title> USE OF HEADING TAGS </title>
</head>
<body>
<h1> This is heading 1 in html </h1>
<h2> This is heading 2 in html </h2>
<h3> This is 3 heading tag in html </h3>
<h4> This is 4 heading tag in html </h4>
<h5> This is 5 heading tag in html </h5>
<h6> This is 6 heading tag in html </h6>
</body>
</html>
```

Output

This is heading 1 in html

This is heading 2 in html

This is 3 heading tag in html

This is 4 heading tag in html

This is 5 heading tag in html

This is 6 heading tag in html

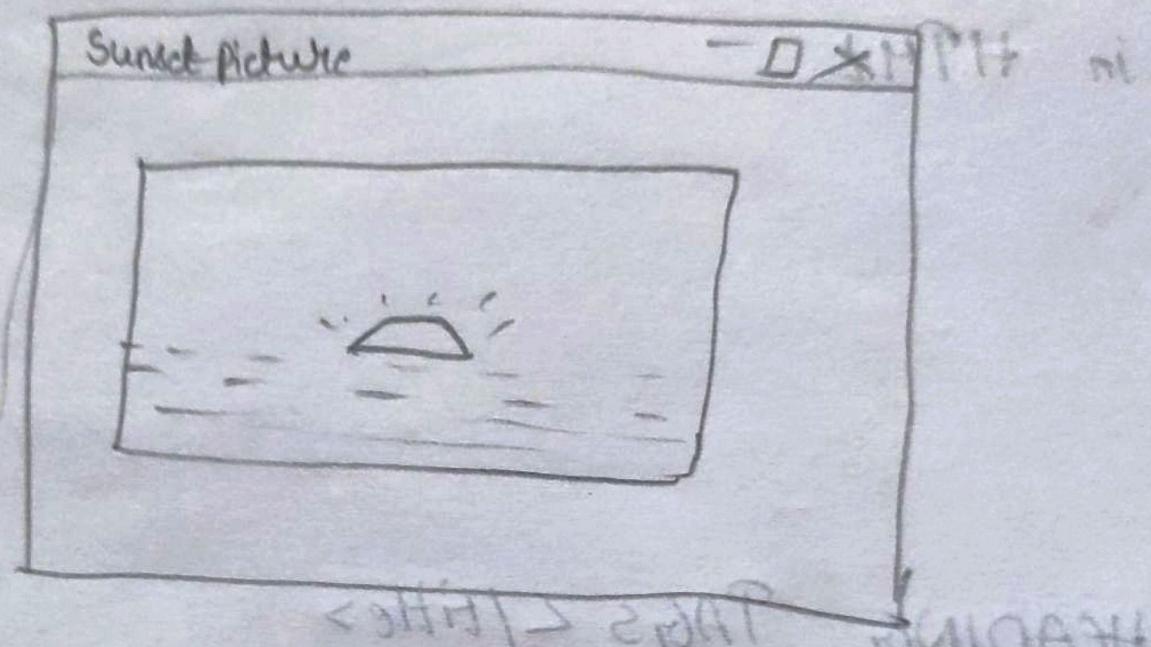
1(b) write a html program to embed an image into web document.

Program

```
<html>
<head>
<title> Embed an image </title>
</head>
<body>

</body>
</html>
```

Output



<ctrl> match in Lembas
<shift> match in scribbles

1.c) write a html program to create hyperlinks to other documents.

Program

```
<html>
<head>
<title> Hyperlinks Creation </title>
</head>
<body>
<p> hyperlink to other documents </p>
<a href = "https://www.w3schools.com/"> Visit W3Schools.com! </a>
</body>
</html>
```

Output shows no borders at all

(Google)

w3schools.com!

<body>

<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto; text-align: center;"><h1>Hello World!</h1>

Q.

a) write an html program to demonstrate the working of ordered & unordered lists in html.

```
<html>
<head>
<title> list </title>
</head>
<body>
<ol type='A'>
<li> UG Courses </li>
    <ol type="a">
        <li> CSE </li>
        <li> CSE Core </li>
            <ul>
                <li> DS </li>
                <li> IOT </li>
                <li> CS </li>
                <li> AI&ML </li>
            </ul>
        <li> EEE </li>
        <li> ECE </li>
        <li> Mech </li>
    </ol>
    <li> PG Courses </li> <ol type='1'>
        <li> CE </li>
        <ul>
            <li> SE </li>
            <li> GES </li>
        </ul>
        <li> ECE </li>
        <ul>
            <li> ES </li>
            <li> VLSI </li>
        </ul>
    </ol>
</body>
</html>
```

Output

A. UG Courses

- a. CSE
- b. CSE Core
 - DS
 - IOT
 - CS
 - ADML

c. EEE

d. ECE

e. Mech

B. PG Courses

1. CE

- SE
- GES

2. ECE

- ES
- VLSP

Q. b) write an html program to create Time table using tables.

Program

```
<html>
<head>
<title> 11 Year CSE - D </title>
</head>
<body>
<table border = "1" width = "1000">
<thead>
<tbody>
<tr> <th> DAY / TIME </th>
      <th> 9:30 - 10:20 </th> <th> 10:20 - 11:10 </th>
      <th> 11:10 - 11:20 </th> <th> 11:20 - 12:10 </th>
      <th> 12:10 - 1:00 </th> <th> 1:00 - 1:45 </th>
      <th> 1:45 - 2:35 </th> <th> 2:35 - 3:25 </th>
      <th> 3:25 - 4:15 </th>
</tr> </tbody> </thead>
<tbody>
<tr> MONDAY <th>
    <td> ASOT </td>
    <td> DBMS-LAB </td>
    <td> BREAK </td>
    <td colspan = "2" > <center> DBMSLAB </center> </td>
    <td> LUNCH </td>
    <td> WT </td> <td> DAA </td> <th> EC </th>
</tr> <tr> OLIVE <th>
    <td colspan = "2" > DAA-LAB </td>
    <td> DAA LAB </td>
    <td> CC </td> <td> ES </td> <td> ASOT </td> <td> DAA </td>
</tr> <tr> LIGHT SALMON <th>
```

```
<th> WEDNESDAY </th>
<td> CC </td> <td> DAA </td> <td> WT </td> <td> ASOT </td>
<td colspan="3"><center> WTLAB </center> </td>
</tr>
<tr bgcolor="Lime">
<th> THURSDAY </th>
<td> WT </td> <td> ASOT </td> <td> DAA </td> <td> DBMS </td>
<td> CC </td> <td colspan="2"><center> Vac </center></td>
</tr>
<tr bgcolor="CRIMSON">
<th> FRIDAY </th>
<td> DAA </td> <td> ASOT </td> <td> DBMS </td> <td> Counselling
<td> DBMS </td> <td> ES </td> <td> CC </td> </td>
</tr>
<tr bgcolor="Purple">
<th> SATURDAY </th>
<td> WT </td> <td> CC </td> <td> Library </td> <td> WT </td>
<td colspan="2"> ASOT </td> <td> SPORTS </td>
</tr>
</tbody>
</table>
</body>
</html>
```

TIME TABLE

04/ TIME	9:30 - 10:20	10:20 - 11:10	11:10 - 11:20	11:20 - 12:10	12:10 - 1:00	1:00 - 1:45	1:45 - 2:35	2:35 - 3:25	3:25 - 4:15
MONDAY	ASOT	OBMS LAB		OBMS LAB			WT	OA	CC
TUESDAY	DAA LAB			DAA LAB			ES	ASOT	OA
WEDNESDAY	CC	OA	BREAK	WT	ASOT	LUNCH	WT	LAB	
THURSDAY	WT	ASOT	OA	OBMS			CC	VAC	
FRIDAY	OA	ASOT	OBMS	Cancelling	OBMS		ES	CC	
SATURDAY	WT	CC	Library	WT	OBMS		ASOT	SParts	

Output

Q.C) Write an HTML program to demonstrate the use of form tag
El Create login form with includes following attributes such as
text, password, radiobutton, checkbox, data, file, month, week, URL.

Program

```
<html>
<head>
<title> Login Form </title>
</head>
<body>
<form align="center">
<h3> Login Details </h3>
<label> Enter userName </label>
<input type="text" name="username" placeholder="username" required>
<br><br>
<label> Enter password: </label>
<input type="password" name="password" pattern="^(?=.*[a-zA-Z])(?=.*[0-9])(?=.*[!@#$%^&*()_+])[a-zA-Z0-9!@#$%^&*()_+]{8,32}"><br>
<label> Gender: </label>
<input type="radio" name="gender" value="male" > MALE
<input type="radio" name="gender" value="female" > FEMALE
<br><br>
<label for="email"> Enter your email: </label>
<input type="email" id="email" name="email" pattern="^([a-zA-Z0-9.!#$%^&*+=?]+@[a-zA-Z0-9.-]+.[a-zA-Z]{2,})$"><br><br>
<label> Enter your phone number: </label>
<input type="tel" name="phone" pattern="^([1-9]{1}[0-9]{9})$"><br><br>
<label align="top"> Enter your Address: </label>
<textarea rows="5" cols="20"> Enter here </textarea> <br><br>
<label> Birthday: </label>
<input type="date" name="birthday" ><br><br>
<label> Your Department </label>
<select name="depts" >
```

```
<option value="EEE">EEE </option>
<option value="CSE">CSE </option>
<option value="IT">IT </option>
<option value="ECE">ECE </option>
<opt group level="Emerging CSE">
    <option value="DS">DS </option>
    <option value="AIML selected">Selected </option>
</opt group>
<label>B.tech joined (month & year):</label>
<input type="month" id="monthyear" name="monthyear"><br><br>
<label>Enter your favorite programming language:</label>
<input type="checkbox" name="Cse" value="C"> C
<input type="checkbox" name="Cse" value="C++"> C++
<input type="checkbox" name="Cse" value="Java"> Java <br><br>
<label>Age limit for Job is 18 to 32 </label> <br>
<label>Enter date after 1990-01-01:</label>
<input type="date" name="datemin" min="1990-01-01"><br><br>
<label>Enter date before 2004-01-01:</label>
<input type="date" name="datemax" max="2004-01-01"><br><br>
<label>Attach your resume:</label>
<input type="file" name="resume"><br><br>
<label>Add your homepage:</label>
<input type="url" name="homepage"><br><br>
<label>Quantity (1 to 100):</label>
<input type="number" name="quantity" min="0" max="100" step="10"
       value="20"><br><br>
<label>Volume (between 0 to 100):</label>
<input type="range" name="vol" min="0" max="100"><br><br>
<label>Select a time:</label>
<input type="time" name="time"><br><br>
<label>Current Date/Time (date & time):</label>
<input type="datetime-local" name="current datetime"><br><br>
```

```
<label for="week">Select a week:</label>
<input type="week" id="week" name="week"><br><br>
<label> Select your color:</label>
<input type="color" name="#ff00ff"><br><br>
<input type="button" value="clickme" onclick="alert('Hello')">
<input type="Submit" name="Submit">
<input type="reset" name="Reset"> <br><br>
</form>
</body>
</html>
```

script what is sent is played with
script what is send in response with

Output

LOGIN FORM

Enter username:

Enter Password:

Gender: MALE FEMALE

Enter your Email:

Enter your Phone number:

Enter your address:

Birthday DD/MM/YY

Select Your Department:

Btech joined (month & year): November

Programming skills (between 1-5): 3

Enter your favorite Programming language: C C++ Java

Age limit for the job is between 18-32

Enter a date after 1990-01-01:

Enter a date after 2004-01-01:

Attach your resume: choose file no file chosen

Add your homepage:

Quality (1 to 100):

Volume (between 0-100): 0

Select a time: - : - : 0

Birthday (date & time): mm dd yy - i - j

Select a week: week .. 0

Select a favorite color:

Submit

Reset

3. Write a program to Create an internal Cascading style sheet using

a) Id Selector

Program

```
<html>
<head>
<style> #para1 { text-align: center;
                color: blue; } </style>
</head>
<body>
<p id="Para1">Hello Java </p>
<p>This Paragraph will not be affected </p>
</body>
</html>
```

b) Class Selector

Program

```
<html>
<head>
<style> .center { text-align: center; color: blue; } </style>
</head>
<body>
<h1 class="center">This heading is blue & Center aligned </h1>
<p class="center"> This paragraph is blue & Center aligned </p>
</body>
</html>
```

Output

Hello Java

This paragraph will not be affected.

Output

This heading is blue & center aligned

This Paragraph is blue & center aligned

c) group Selector

Program

```
<html>
<head>
<style> h1,h2,P { color: red; text-align: center; } </style>
</head>
<body>
<h1> Hello </h1>
<h2> Welcome </h2>
<h3> HTML </h3>
<p> This is a paragraph </p>
</body>
</html>
```

d) universal Selector

Program

```
<html>
<head>
<style> * { color: green; font-size: 80px; } </style>
</head>
<body>
<h2> This is heading </h2>
<p> This style will be applied on every para </p>
<p id="para1"> Me too! </p>
<p> And me! </p>
</body>
</html>
```

(Output)

Hello

Welcome

HTML

This is a paragraph

<style> { color : red }</style>

<p> text will be </p>
<p> bolded and turn blue respectively </p>

Output

This is heading

This style will be applied on every para

Me too!

and me!

<h1> text will be bolded and turn blue respectively </h1>
<p> text will be bolded and turn blue respectively with tag </p>

4. Write a program to create an external cascading style sheet which includes background properties, border properties, font & margin properties.

Program

```
<html>
<head>
<link rel="stylesheet" href="styles.css">
</head>
<body>
<h1> This is a program on External CSS </h1>
<p> This includes bgColor, font. </p>
</body>
</html>
```

Styles.css

```
body {
    background: #ff00ff url('VMC.jpg') no-repeat
                fixed right top; border-style: solid; }

h1 {
    color: blue; font-family: verdana; }

p {
    font-size: 300%; margin: 50px; }
```

Output

This is a program on External CSS

This includes background, font.

`<style> {background-color: red; text-align: center;}`

`<div>`
`<div>`
`<div>`
`<div>` displaying a s

5. a) write a php program to find largest of 3 numbers using nested if statement.

Program

```
<?php  
$a=4; $b=6; $c=9;  
if($a>$b)  
{  
    if($a>$c)  
{  
        echo("$a is largest");  
    }  
    else  
{  
        if($b>$c)  
            echo "$b is largest";  
        else  
            echo "$c is largest";  
    }  
}  
?>
```

Output:

9 is largest

infra

b) write a php program to find prime numbers between 1 to 50

question by erika

Program:

Program

q17

```
<?php  
for ($i=1 ; $i<=50 ; $i++)  
{  
    for($j=2 ; $j<=$i ; $j++)  
    {  
        if($j%$i==0)  
        {  
            break;  
        }  
        echo "Prime number: ", $i "<br>";  
    }  
}>
```

Output

Prime number: 2
Prime number: 3
Prime number: 5
Prime number: 7
Prime number: 11
Prime number: 13
Prime number: 17
Prime number: 19
Prime number: 23
Prime number: 29
Prime number: 31
Prime number: 37
Prime number: 41
Prime number: 43
Prime number: 47

6. a) Write a PHP program to traverse the array elements using for each loop

Program

```
<?php  
$season = array ("summer", "winter", "spring", "autumn");  
foreach ($season as $a88) {  
    echo "Season is : $a88 <br>";  
}  
?>
```

Output:

Season is: Summer
Season is: winter
Season is: spring
Season is: autumn

b) Write a PHP program to merge two arrays & sort them in descending order

Program

```
<?php  
$a1 = array (1, 3, 15, 7, 5);  
$a2 = array (4, 3, 20, 1, 6);  
$num = array_merge ($a1, $a2);  
array_multisort ($num, SORT_DESC, SORT_NUMERIC);  
print_r ($num);  
?>
```

Output

Array ([0] => 20 [1] => 15 [2] => 7 [3] => 6 [4] => 5 [5] => 4 [6] => 3 [7] => 3
[8] => 1 [9] => 1)

7.a) Write a php program to factorial numbers using recursion

Program:

```
<?php  
function factorial($n)  
{  
    if ($n < 0)  
        return -1;  
    if ($n == 0)  
        return 1;  
    return ($n * factorial($n-1));  
}  
echo factorial(5);  
?>
```

Output

120

7.b) Write a php program for call by value and call by reference

Program:

```
<?php  
function adder($str2)  
{  
    $str2 = 'Call by value';  
}  
$str = 'Hello';  
adder($str);  
echo ($str);  
?>
```

Output

Hello

↳ Address of variable is passed with a reference

Program

```
<?php  
function adder(&$str2)  
{  
    $str2 = "Call by Reference";  
}  
$str = "This is ";  
adder($str);  
echo($str);  
?>
```

(Ans) Output

:(L-E-A-N) Output

(Ans) Output

Output

This is Call by Reference

If the bus value of the ref of memory with a

(Ans) Output

:(value of str)

8. a) Write a php program to find length of a string and reverse of a string.

Program

```
<?php
```

$\$str = "Malla Reddy Engineering College";$

echo "Your string is: " . \$str; // Output: Malla Reddy Engineering College

echo "
";

echo "By using 'strlen()' function: " . strlen(\$str); // Output: 31

echo "Reverse string of \$str is
" . strrev(\$str);

```
?>
```

Output

Your string is: Malla Reddy Engineering College

By using 'strlen()' function: 31

Reverse string of mallareddy Engineering college is
elamm alldam ydder egnigne gnioreenigne

b) Write a php program to count the words in a given string

Program

```
<?php
```

$\$str = "Malla Reddy Engineering College";$

$\$len = str_word_count(\$str);$

echo \$len;

```
?>
```

Output

4

c) Write a PHP program to search for a specific string in a given string.

Program

```
<?php  
$input_string = "Hello Reddy Engineering College";  
$sub = "Engineering";  
if (strpos ($input_string, $sub) != false)  
{  
    echo "True";  
}  
else  
{  
    echo "False";  
}  
?>
```

Output

True

9.

a) Write a PHP program for form validation and it consists of textfields, button, textarea, radio buttons.

Program

```
<html>
<head>
<style> .error {color: #ff0000;} </style>
</head>
<body>
<?php
$nameErr = $emailErr = $genderErr = $websiteErr = $commentErr = '';
$name = $email = $gender = $comment = $website = '';
if($_SERVER['REQUEST_METHOD'] == 'POST')
{
    if(empty($_POST['name']))
    {
        $nameErr = 'Name is required';
    }
    else
    {
        $name = test_input($_POST['name']);
    }
    if(empty($_POST['email']))
    {
        $emailErr = 'Email is required';
    }
    else
    {
        $email = test_input($_POST['email']);
    }
    if(empty($_POST['website']))
    {
        $website = '';
    }
    else
    {
        $website = test_input($_POST['website']);
    }
}
```

```

if(empty($_POST['Comment']))
{
    $Comment = " ";
}
Else
{
    $Comment = test_input($_POST['Comment']);
}
if(empty($_POST['Gender']))
{
    $gendererr = "Gender is required";
}
else
{
    $gender = test_input($_POST['gender']);
}
function test_input($data)
{
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchar($data);
    return $data;
}


## Student Registration



* required field.


<form method="POST"
      action ="<?php echo htmlspecialchars($_SERVER['PHP_SELF']); ?>">
<table>
<tr><td> Name:</td>
<td> <input type="text" name="name">
<span class = "error"> * <?php echo $nameErr; ?> </span>
</td> </tr>

```

```
<tr><td> Email : </td>
<td> <input type = "text" name = "email">
<span class = "error" > * <?php echo $emailErr; ?> </span>
</td> </tr>

<tr> <td> Website : </td>
<td> <input type = "text" name = "website">
<span class = "error" > * <?php echo $websiteErr; ?> </span>
</td> </tr>

<tr> <td> Comments : </td>
<td> <textarea name = "Comment" rows = "5" cols = "4"> </textarea>
</td> </tr>

<tr> <td> Gender : </td> <td>
<input type = "radio" name = "gender" value = "female" > FEMALE
<input type = "radio" name = "gender" value = "Male" > MALE
<span class = "error" > * <?php echo $genderErr; ?> </span>
</td> </tr>

<td> <input type = "submit" name = "Submit" value = "Submit" </td>
</table>
</form>

<?php
echo "<h2> Your given values are as: </h2> ";
echo $name; echo "<br>";
echo $email; echo "<br>";
echo $website; echo "<br>";
echo $comments; echo "<br>";
echo $gender;
?>
</body>
</html>
```

Output

Student Registration

* required field

Name: *

Email:

Website:

Comments:

Gender: FEMALE MALE *

Submit

Your given values are as

Ram

Ram@gmail.com

mrec.ac.in

MREC college

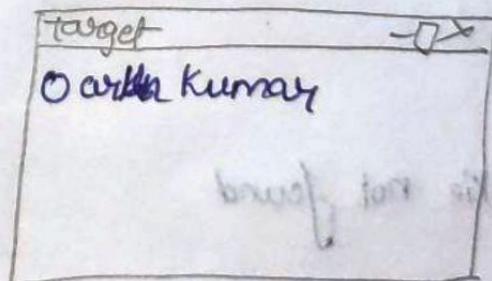
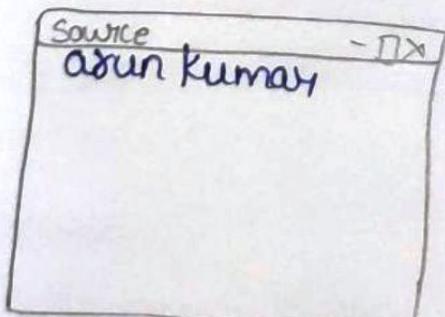
MALE

b) write a php program that reads data from one file & write into another file

Program

```
<?php  
$source = 'Source.txt';  
$target = 'target.txt';  
  
$lines = file($source);  
$data = array();  
foreach ($lines as $line) {  
    $data[] = '0'.trim($line);  
}  
file_put_contents($target, implode(PHP_EOL, $data));  
?>
```

Output



10. write a php program to set the cookie & delete the cookie

Program

```
// Set Cookie  
<?php  
Setcookie("user", "Rajesh");  
?  
<html>  
<body>  
<?php  
if (!isset($_COOKIE["user"])) {  
    echo "Sorry, cookie is not found!";  
} else {  
    echo "<br>Cookie value: " . $_COOKIE["user"];  
}  
?  
</body>  
</html>
```

Output

Sorry, cookie not found

After Page refresh

Cookie Value: Rajesh

Program

```
//delete cookie  
<?php  
Setcookie("CookieName", "", time() - 3600);  
?  
<html>  
<head>  
<title> Deleting Cookies with PHP </title>  
</head>  
<body>  
<?php echo "Deleted Cookies"; ?>  
</body>  
</html>
```

Output

Deleted Cookies

) Write a php program to create the session to get & get the session information

Program

File: Session1.php

```
<?php  
Session_start();  
?  
<html>  
<body>  
<?php  
$_SESSION["user"] = "Ramu";  
echo "Session information are set successfully.";  
?  
<a href="Session2.php"> Visit next page </a>  
</body>  
</html>
```

File: Session2.php

```
<?php  
Session_start();  
?  
<html>  
<body>  
<?php  
echo "User is: " . $_SESSION["user"];  
?  
</body>  
</html>
```

Output

Session 1
Session information are set successfully.
visit next page

Session 2

User is: Ramu.

1) a) Write an XML program to create internal DTD & external DTD for an XML document for employee details.

Program

// Employee details using Internal DTD

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<!DOCTYPE employee [

<!ELEMENT employee(name,sal,id)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT sal (#PCDATA)>

<!ELEMENT id (#PCDATA)>

]>

<employee>

<name> Ramu </name>

<sal> 40,000 </sal>

<id> 497 </id>

</employee>

Output

Ramu 40000 497

External dtd

Program

// Employee details using External DTD

① Employee.dtd

<!ELEMENT employee(name,sal,id)>

<!ELEMENT name (#PCDATA)>

<!ELEMENT sal (#PCDATA)>

<!ELEMENT id (#PCDATA)>

② employee2.dtd

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE employee SYSTEM "employee.dtd">
<employee>
    <name> Sowmya Ramu </name>
    <Sal> 40,000 </Sal>
    <id> 499 </id>
</employee>

```

Output

Ramu 40,000 499

b) Write an XML program to create xsd for an XML document for student details.

Student.xsd

```

<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:element name="Student">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="sname" type="xsd:string"/>
                <xsd:element name="htno" type="xsd:string"/>
                <xsd:element name="branch" type="xsd:string"/>
                <xsd:element name="mobileno" type="xsd:integer"/>
                <xsd:element name="Email" type="xsd:string" maxOccurs="3" minOccurs="0"/>
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
</xsd:schema>

```

File: Student Schema.XML

```
<?xml Version="1.0" Encoding="UTF-8"?>
<Student xsi:noNamespaceSchemaLocation="Student.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Student>
  <sname> Ramya </sname>
  <htno> 540 </htno>
  <branch> CSE </branch>
  <mobileno> 1234567898 </mobileno>
  <email> Ramya@gmail.com </email>
  <email> Ramya540@gmail.com </email>
</Student>
```

Output

Ramya 520 CSE 1234567898 Ramya@gmail.com Ramya540@gmail.com