

1. Define an interface which has methods area(), volume(). Define constant PI. Create a class cylinder which implements this interface and calculate area and volume. (Hint: Use define())
2. Create Class Collge and Class Department as base class and derived class respectively , Create one more class as Faculty to display it's detail information.(Use the concept of interface)
3. Write a PHP program to create class circle having radius data member and two member functions find_circumfernce () and find_area() . Display area and Circumference depending on user's preference.
4. Write a PHP Script to display Server information in table format (Use \$_SERVER).
5. Write a PHP script to Design a form to accept a number from the user to check whether number is palindrome or not. (Use the concept of self processing page)
6. Write a XML program which shows how you can easily read and display the contents of an XML document using SimpleXML .
7. Write a script to create "Company.xml" file with multiple elements as shown below:

```
<CemployeeTeam>
<Team Name="Red">
<Ename> </ Ename >
<Eexperience> </ Eexperience >
<Emobno> </ Emobno >
<Eaddress> _____</Eaddress>
</Team>
</CemployeeTeam>
```

8. Write a PHP Script to read book.XML and print book details in tabular format using simple XML.(Content of book.XML are (bookcode , bookname , author , year , price).
9. Write a PHP script to create XML file named "Course.xml"

```
<Course>
<SYBBA CA>
<Student name> .....</Student name>
<Class name>..... </Class name>
<percentage>.... </percentage>
</SYBBA CA>
</Course>
```

Store the details of 5 students who are in SYBBACA.

10. Write PHP script to generate an XML code in the following format

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<CATALOG>
<CD>
<TITLE>Empire Burlesque</TITLE>
<ARTIST>Bob Dylan</ARTIST>
<COUNTRY>USA</COUNTRY>
<COMPANY>Columbia</COMPANY>
<PRICE>10.90</PRICE>
<YEAR>1985</YEAR>
</CD>
</CATALOG>
```

Save the file with name “CD.xml”.

11. Write PHP script to generate an XML code in the following format

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<CATALOG>
  <PLANT>
    <BOTANICAL>Sanguinaria canadensis</BOTANICAL>
    <ZONE>4</ZONE>
    <LIGHT>Mostly Shady</LIGHT>
    <PRICE>$2.44</PRICE>
    <AVAILABILITY>031599</AVAILABILITY></PLANT></CATAOG>
```

Save the file with name “plant.xml”.

12. Write a script to create “cricket.xml” file with multiple elements as shown below:

```
<CricketTeam>
  <Team country="India">
    <player> </player>
    <runs> </runs>
    <wicket> </wicket>
  </Team>
</CricketTeam>
```

Write a script to add multiple elements in “cricket.xml” file of category, country=”Australia”.

13. Write a script to create “breakfast.xml” file with multiple elements as shown below:

```
<breakfast_menu>
  <food>
    <name>French Fries</name>
    <price>Rs45</price>
    <description>Young youths are very much intrested to eat it </description>
    <calories>650</calories>
  </food>
</breakfast_menu>
```

Write a script to add multiple elements in “breakfast.xml” file of category, Juice.

14. Create a XML file which gives details of movies available in “Mayanagari CD Store” from following categories

- a) Classical
- b) Action
- c) Horror

Elements in each category are in the following format

```
<Category>
  <Movie Name>----</Movie Name>
  <Release Year>----</Release Year>
</Category>
```

Save the file with name “movies.xml”.

15. Create an application that reads “book.xml” file into simple XML object. Display attributes and elements (Hint:simple_xml_load_file() function) .
16. Write a php script to create class shape and its sub class triangle,square,circle and display area of selected shape.(use of Inheritance).
17. Write a php program to convert temperature fahrenheit to celcius using sticky forms.
18. Write Ajax program to carry out validation for a username entered in textbox. If the textbox is blank, print ‘Enter username’. If the number of characters is less than three,print ‘Username is too short’. If value entered is appropriate the print ‘Valid username’.
19. Write ajax program to read a text file and print the contents of the file when the user clicks on the print button.
20. Write a php script using ajax concept to check user name and password are valid or invalid.