

Slip-1

Q. Q1)

Write the HTML code for generating the form as shown below. Apply the internal CSS to following form to change the font size of the heading to 6pt and change the color to red and also change the background color to yellow. [15]

Ans:-

```
<html>

<head>

<style type="text/css">

Body

{

    background:yellow;

    color:red;

}

h1{

    color:red;

    font-family:times new roman;

    font-size:20pt;

    text-align:center;

    text-transform:uppercase;

    background-color:blue;

}

    form

    {

        border-style:dotted;

    }

</style>

<form>

<h1>Project Management</h1>

Project Name<input type=text name=t1 placeholder=project name><br>

Assigned to<select>

    <option>Mr.Kale</option>
```

<option>Mr.Kale</option>

<option>Mr.Kale</option></select>

Start date<input type=date>

End date<input type=date>

Priority <input type=radio name=r1>High <input type=radio name=r1>avg <input type=radio name=r1>low

Decription<textarea rows=10 cols=25></textarea>

</form></body>

</html>

Q2A)

```
import pandas as pd
import matplotlib.pyplot as plt
d = pd.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
ax=plt.subplots(1,1,figsize=(10,8)) //defines size of chart area
d['Species'].value_counts().plot.pie() //counts distinct values in dataset
plt.title("Iris Species %")
plt.show()
```

Q2B)

```
import pandas as p
df = pd.read_csv('C:\\Users\\DELL\\winequality-red.csv')
df.shape # no.of rows & cols
df.describe() #stats data
df.info() #features
df.dtypes
```

slip-2

Q.1) Create HTML5 page with following specifications [15]

- Title should be about your City.
- Color the background by Pink color.
- Place your city name at the top of page in large text and in blue color.
- Add names of the landmarks in your city, each in different color, style and font
- Add any image at the bottom. (Use inline CSS to format the web page)

ans;-

<HTML>

<HEAD><TITLE><CENTER>My CITY</CENTER></TITLE></HEAD>

<body style="background-color:red">

<h1 style="color:blue;">Nashik Maharashtra</h1>

```

<p style="background:yellow;color:blue;text-decoration:overline;border-style:solid;border-width:5px;">Landmarks</p><br>
<h2 style="font-family:Berlin Sans FB;font-style:italic;color:yellow;border-style:dashed;border-color:red;">Kalaram Temple</h2><BR>
<h2 style="font-family:arial;font-style:bold;color:pink;border-style:dotted;border-color:black;">Godavri River</h2><BR>
<h2 style="font-family:Times new roman;font-style:italic;border-style:dashed;border-color:red;">Kalaram Temple</h2><BR>
<IMG SRC="Desert.jpg" WIDTH="400" HEIGHT="400" ALT="IMAGE CANNOT BE DISPLAYED">
</body>
</HTML>

```

fds

Q2 A)

```

import pandas as p
import numpy as n
d=p.read_csv('D:\yogita\ss.csv')
v=d['age'].mean()
v1=d['salary'].mean()
d['age'].fillna(v,inplace=True)
d['salary'].fillna(v1,inplace=True)
print(d)

```

Q2B)

```

import numpy as np
import matplotlib.pyplot as plt
import pandas as p
df=p.DataFrame({'name':['kunal','rekha','satish','ashish','radha'],
               'age':[20,23,22,20,21],
               'per':[98,80,95,92,85],
               'salary':[100000,300000,20000,300000,80000] })
df.plot(x="name",y="salary")
plt.show()

```

Q2C)

```

import pandas as p
df=p.read_csv("ht&wt.csv")
print("first 10 rows \n",df.head(10))
print("\n random 20 rows\n",df.sample(20))
print("\n shape \n" ,df.shape)

```

slip -3

a program using html with following CSS specifications- [15]

- i i. The background colour of the company name should be in green.
- ii ii. The text colour of the company name should be red.
- iii iii. The heading should be large –with font "comic sans ms"
- iv iv. The description of the company should be displayed in blue color in a paragraph.

Ans:-

```
<HTML>
```

```
<HEAD><TITLE><CENTER>My CITY</CENTER></TITLE></HEAD>
```

```
<body>
```

```
<h1 style="background:yellow;color:red;text-align:center;font-family:Comic Sans MS">Infosys</h1><br>
```

```
<p style="color:blue;border-style:dotted;border-color:black">Infosys Limited is an Indian multinational information technology company that provides business consulting, information technology and outsourcing services. The company was founded in Pune and is headquartered in Bangalore.[5] Infosys is the second-largest Indian IT company, after Tata Consultancy Services, by 2020 revenue figures, and the 602nd largest public company in the world, according to the Forbes Global 2000 ranking.[6]
```

```
On 24 August 2021, Infosys became the fourth Indian company to reach $100 billion in market capitalization.</p>
```

```
</body>
```

```
</HTML>
```

Q2A)

```
import pandas as p
d=p.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
#remove id field from iris dataset
new_data = d[["SepalLengthCm", "SepalWidthCm", "PetalLengthCm", "PetalWidthCm"]]
print(new_data)
plt.figure(figsize = (10, 7))
new_data.boxplot()
```

Q2B)

```
import pandas as p
df = pd.read_csv('C:\\Users\\DELL\\ht&wt.csv')
df.shape # no.of rows & cols
df.describe() #stats data
df.info() #features
df.dtypes
```

slip 4

Q.1) Write a HTML code, which generate the following output

```
<html>
<body>
<table border=5>
<caption>List of Books</caption>
<tr><td rowspan=2>Item No</td><td rowspan=2>Name</td><td colspan=2>Price</td>
<tr><td>rs</td><td>paise</td></tr>
</tr>
<tr><td>1</td><td>python</td><td>500</td><td>50</td></tr>
<tr><td>2</td><td>Java</td><td>345</td><td>00</td></tr>
</table></body></html>
```

Fds**Slip 4**

Q2A)

```
import matplotlib.pyplot as plt
import numpy as np
x = np.random.randn(50)
y = np.random.randn(50)
plt.plot(x,y)
plt.show()
plt.scatter(x,y)
plt.show()
plt.hist(x)
plt.show()
plt.boxplot(y, vert=False)
plt.show()
```

Q2b)

```
import pandas as p
df = pd.read_csv('C:\\Users\\DELL\\User_Data.csv')
df.shape # no.of rows & cols
df.describe() #stats data
df.info() #features
df.dtypes
```

slip =7

```
<!DOCTYPE html>
```

```
<html>
<head>
<style>
#ul-nb {
list-style: none;
margin:0;
padding:0;
overflow: hidden;
    background-color: grey;
}
#ul-nb li {
float:left;
padding:15px;
text-align: center;
margin-left:10px;
}
.active {
    background-color: white;
}
</style>
</head>
<body>
<ul id="ul-nb">
    <li><a class="active" href="#">Home</a></li>
    <li><a href="#">Java</a></li>
    <li><a href="#">HTML</a></li>
    <li><a href="#">CSS</a></li>
</ul>
</body>
</html>
```

fds Q2)

```
import pandas as p
from sklearn import preprocessing
d = pd.read_csv('D:\\yogita\\Data.csv')
label_encoder = preprocessing.LabelEncoder()
d['purchased'] = label_encoder.fit_transform(d['purchased'])
one_hot_encoded_data = p.get_dummies(d, columns = ['country'])
print(one_hot_encoded_data)
```

Commented [NS1]:

slip-8

Q.1) Design an HTML form to accept two strings from the user. Write a PHP script for the following.

- Find whether the small string appears at the start of the large string.
- Find the position of the small string in the big string.
- Compare both the string for first n characters, also the comparison should not be case sensitive.

Ans:-

HTML CODE :-

```
<html>
<body>
<form action="setb1.php" method=post>
Enter first string :<input type='text' name='str1'><br>
Enter second string :<input type='text'
name='str2'><br>
<input type=submit value=ok>
</form>
</body>
```

PHP CODE:-

```
<?php
$s1=$_POST['str1'];
$s2=$_POST['str2'];
if(strpos($s2,$s1))
{
    echo "$s1 is present at begining at $s2<br>";
}
else
{
```

```

    echo "$s1 is no present at the begining of $s2<br>";
}
$z=strpos($s2,$s1);
echo "position of $1 in $s2 is $z<br>";
$z=strncmp($s1,$s2,3);
if($z==0)
{
    echo "both string matches 3 char";
}
else
{
    echo "sring not match";
}
?>

```

Slip =10

Q.1) Write a script to accept two integers(Use html form having 2 textboxes).

Write a PHP script to,

- Find mod of the two numbers.
- Find the power of first number raised to the second.
- Find the sum of first n numbers (considering first number as n)
- Find the factorial of second number.

(Write separate function for each of the above operations.)

Ans:-

HTML CODE :-

```

<html>
<body>
<form action="seta1.php" method=post>
Enter first number<input type=text name=t1><br>
Enter second number<input type=text name=t2>
<input type=submit value=display></form></body></html>

```

PHP CODE:-

```

<?php
function mod($x,$y)

```



```
{  
    $z=$x%$y;  
    echo "mod value of $x & $y is $z<br>";  
}  
function power($x, $y)  
{  
    $f= 1;  
    $n1 = $y;  
    while($n1 > 0)  
    {  
        $f= $f * $x;  
        $n1--;  
    }  
    echo "$x raised to the power $y = $f <br>";  
}  
function sum($x)  
{  
    $sum=0;  
    $i=1;  
    while($i<=$x)  
    {  
        $sum=$sum+$i;  
        $i++;  
    }  
    echo "sumof first $x number is $sum<br>";  
}  
function fact($y)  
{  
    $i=1;$f=1;  
    while($i<=$y)  
    {
```

```

    $f=$f*$i;
    $i++;
}
echo "factorial of $y is $f";
}
$x=$_POST['t1'];
$y=$_POST['t2'];
mod($x,$y);
power($x,$y);
sum($x);
fact($y);
?>

```

FDS

Q2A)

```

import pandas as p
df=p.read_csv("ht&wt.csv")
print("mean is \n",df.mean)
print("median is \n",df.median)

```

Q2B)

```

def distancesum (x, y, n):
    sum = 0

    # for each point, finding distance
    # to rest of the point
    for i in range(n):
        for j in range(i+1,n):
            sum += (abs(x[i] - x[j]) +
                    abs(y[i] - y[j]))
        return sum
    x = [ -1, 1, 3, 2 ]
    y = [ 5, 6, 5, 3 ]
    n = len(x)
    print(distancesum(x, y, n) )

```

Slip-12

Q.1) Write a menu driven program to perform the following operations on associative arrays:

- a) Split an array into chunks
- b) Sort the array by values without changing the keys.
- c) Filter the even elements from an array.

HTML CODE :-

```
<html>

<body>

<form action="setc_2.php" method="post">

<h2>Enter choice :</h2>

<input type="radio" name="ch" value=1> split the array into chunks<br>

<input type="radio" name="ch" value=2> Sort array by values without changing key <br>

<input type="radio" name="ch" value=3> Filter even elements from array <br>

<input type="submit" value="SUBMIT"> <input type="reset" value="CLEAR">

</body>

</html>
```

PHP CODE :-

```
<?php

function is_even($var)

{

if($var%2==0)

return $var;

}

$choice=$_POST['ch'];

$arr=array('a'=>1,'b'=>2,'c'=>3,'d'=>4,'e'=>5,'f'=>6,'g'=>7,'h'=>8);

switch($choice)

{

case 1:

print_r(array_chunk($arr,2));break;

case 2:

asort($arr);

echo "Array in ascending order:<br>";

print_r($arr);
```

```

        arsort($arr);
        echo "<br>Array in descending order:<br>";
        print_r($arr);
        break;
    case 3:
        print_r(array_filter($arr,'is_even'));
        break;
    }
?>

```

FDS

Q2A)

```

import matplotlib.pyplot as plt
import numpy as np
x = np.random.randn(50)
y = np.random.randn(50)
plt.plot(x,y)
plt.show()
plt.scatter(x,y)
plt.show()
plt.hist(x)
plt.show()

```

Q2B)

```

plt.boxplot(y, vert=False)
plt.show()

```

slip-21

Q.1) Create an array of 15 high temperatures, approximating the weather for a spring month, then find the average high temp, the five warmest high temps Display the result on the browser.

HTML CODE :-

```

<html>

<body>

<form name="f1" method="POST" action="arrayc1.php">

<center>MENU</center>

1.Insert an element in queue<br>
2.Delete element from queue<br>
3.Display the contents of stack<br>

Enter your choice :

```

```
<input type="text" name="t1"><br>
```

```
<input type="submit" value=ok>
```

```
</form>
```

```
</body>
```

```
</html>
```

PHP CODE :-

```
<?php
```

```
    $ch=$_POST['t1'];
```

```
    $a=array(10,20,1,2,3,4,5,6);
```

```
    switch($ch)
```

```
    {
```

```
        case 1:echo"<br>ORIGINAL QUEUE IS :";
```

```
            foreach($a as $v)
```

```
            {
```

```
                echo"$v\t";
```

```
            }
```

```
            array_unshift($a,'7');
```

```
            echo"<br>After inserting an element queue is :";
```

```
            foreach($a as $v)
```

```
            {
```

```
                echo"$v\t";
```

```
            }
```

```
            break;
```

```
        case 2:echo"<br>ORIGINAL QUEUE IS :";
```

```
            foreach($a as $v)
```

```
            {
```

```
                echo"$v\t";
```

```
            }
```

```
            array_shift($a);
```

```
            echo"<br>Queue after deleting one element : ";
```

```
            foreach($a as $v)
```

```

        {
            echo"$v\t";
        }
        break;
case 3:echo"<br>ORIGINAL QUEUE IS :";
        foreach($a as $v)
        {
            echo"$v\t";
        }
        break;
default :echo"Invalid choice";
}

```

?>

FDS

Q2A)

```

import pandas as p
import matplotlib.pyplot as plt
d=p.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
d[d.Species=='Iris-setosa'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='orange',
label='Setosa')
d[d.Species=='Iris-versicolor'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='blue',
label='versicolor')
d[d.Species=='Iris-virginica'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='green',
label='virginica')
fig.set_xlabel("Petal Length")
fig.set_ylabel("Petal Width")
fig.set_title(" Petal Length VS Petal Width")
#fig=plt.gcf()
#fig.set_size_inches(12,8)
plt.show()

```

Q2B)

```

import pandas as p
import matplotlib.pyplot as plt
d=p.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
d[d.Species=='Iris-setosa'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='orange',
label='Setosa')
d[d.Species=='Iris-versicolor'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='blue',
label='versicolor')
d[d.Species=='Iris-virginica'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='green',
label='virginica')

```

```
fig.set_xlabel("Petal Length")
fig.set_ylabel("Petal Width")
fig.set_title(" Petal Length VS Petal Width")
#fig=plt.gcf()
#fig.set_size_inches(12,8)
plt.show()
```

slip 22.

Q.1) Write a menu driven program to perform the following queue related operations

- a) Insert an element in queue
- b) Delete an element from queue
- c) Display the contents of queue

ans:-

```
<?php
```

```
//Create an array of 15 Fahrenheit high temperatures for a spring month.
```

```
$highTemps = array(
    68, 70, 72, 58, 60, 79, 82, 73, 75, 77, 73, 58, 63, 79, 78,);
```

```
//Get number of temps.
```

```
$count = count($highTemps);
```

```
//Get a total of all temps.
```

```
$total = 0;
```

```
foreach ($highTemps as $h){
```

```
    $total += $h;
```

```
}
```

```
//Calculate average.
```

```
$avg = round($total / $count);
```

```
//Send data to the browser. &deg; is the ASCII code for the degree sign.
```

```
echo "<p>The average high temperature for the month was $avg &deg;F.</p>\n";
```

```
//Sort the temps and get the top and bottom five.
```

```
//Use rsort to produce a descending sort.
```

```
rsort($highTemps);
```

```
//Pull out the top 5 temps.
```

```
$topTemps = array_slice($highTemps, 0, 5);
```

```
echo "<p>The warmest five high temperatures were: <br />\n";
```

```
foreach($stopTemps as $t)
{
    echo "$t &deg;F <br/> \n";
}
echo "</p>";
?>
```

Slip-23

Q.1) Write a menu driven program to perform the following stack related operations:

- a) Insert an element in stack
- b) Delete an element from stack
- c) Display the contents of stack

```
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title></title>
</head>
<body>
<fieldset>
<legend><h3>Enter Item Details :</h3></legend>
<form class="" action="" method="post">
<center>
<h3>Student Roll No : <input type="text" name="sno" value=""></h3>
<h3>Student Name : <input type="text" name="sname" value=""></h3>
<h3>Marks [ 5 Subject ] : <input type="text" name="marks" value=""
placeholder=" eg. 80,50,70,87,60"></h3>
<input type="submit" name="submit" value="Submit">
</center>
</form>
</fieldset>
</body>
</html>
<?php
```



```
if(isset($_POST['submit'])){
    $sno = $_POST['sno'];
    $sname = $_POST['sname'];
    $marks = explode(" ", $_POST['marks']);
    $total=0;
    $cnt = count($marks);
    for($i=0; $i<$cnt; $i++)
    {
        $total = $total + $marks[$i];
    }
    $per = $total/$cnt;
    if($per>=80){
        $grade='A';
    }
    else if($per>=60){
        $grade = 'B';
    }
    else if($per>=40){
        $grade = "C";
    }
    else {
        $grade = "Fail";
    }
    echo "<table align=center border=1 width='100%'>";
    echo "<tr>
    <th> Roll No </th>
    <th> Name </th>
    <th> Sub1 </th>
    <th> Sub2 </th>
    <th> Sub3 </th>
    <th> Sub4 </th>
```

```

<th> Sub5 </th>
<th> Total </th>
<th> Percentage </th>
<th> Grade </th>
</tr>";
echo "<tr>
<td> $sno </td>
<td> $sname </td>
<td> $marks[0] </td>
<td> $marks[1] </td>
<td> $marks[2] </td>
<td> $marks[3] </td>
<td> $marks[4] </td>
<td> $total </td>
<td> $per </td>
<td> $grade </td>
</tr>";
echo "</table>";
}
?>

```

Slip:-24

Q.1) Write a PHP program to read two file names from user and append content of first file into second file.

HTML CODE :-

```

<html>
<body>
<form action="file1.php" method="POST">
Enter 1st file name
<input type="text" name=txt1><br>
Enter 2nd file name
<input type="text" name=txt2><br>

```

```

Append <input type="radio" name="opt1" value="o">
<input type="submit" value="ok">
</form>
</body>
</html>

```

PHP CODE :-

```

<?php
    $f1=$_POST['txt1'];
    $f2=$_POST['txt2'];
    $file1=fopen($f1,"r")or exit("cant open file");
    echo "hello";
    $file2=fopen($f2,"a+")or exit("cant open file");
    while(!feof($file1))
    {
        $data=fread($file1,filesize($f1));
        fwrite($file2,$data);
    }
    echo "file appended";
    fclose($file1);
    fclose($file2);
?>

```

FDS

```

Q2A)
import pandas as p
import matplotlib.pyplot as plt
d=p.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
d[d.Species=='Iris-setosa'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='orange',
label='Setosa')
d[d.Species=='Iris-versicolor'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='blue',
label='versicolor')
d[d.Species=='Iris-virginica'].plot.bar(x='PetalLengthCm',y='PetalWidthCm',color='green',
label='virginica')
fig.set_xlabel("Petal Length")
fig.set_ylabel("Petal Width")
fig.set_title(" Petal Length VS Petal Width")
#fig=plt.gcf()
#fig.set_size_inches(12,8)

```

```
plt.show()
```

Q2B)

```
import pandas as p
import matplotlib.pyplot as plt
d=p.read_csv('C:\\Users\\DELL\\Untitled Folder\\Iris.csv')
d[d.Species=='Iris-setosa'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='orange',
label='Setosa')
d[d.Species=='Iris-versicolor'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='blue',
label='versicolor')
d[d.Species=='Iris-virginica'].plot.hist(x='PetalLengthCm',y='PetalWidthCm',color='green',
label='virginica')
fig.set_xlabel("Petal Length")
fig.set_ylabel("Petal Width")
fig.set_title(" Petal Length VS Petal Width")
#fig=plt.gcf()
#fig.set_size_inches(12,8)
plt.show()
```

slip=25

Q.1) Write a menu driven program to perform various file operations. Accept filename from user.

[15]

- a) Display type of file.
- b) Display last modification time of file
- c) Display the size of file
- d) Delete the file

HTML CODE :-

```
<html>

<form action="setc1.php" method="post">

Enter file name<input type="text" name="file"><br>

<input type="radio" name="b" value="1">1.DISPLAY TYPE OF FILE<br>

<input type="radio" name="b" value="2">2.DISPLAY LAST ACCESSED TIME<br>

<input type="radio" name="b" value="3">3.DISPLAY SIZE OF FILE<br>

<input type="radio" name="b" value="4">4.DELETE THE FILE

<input type="submit" name="submit" value="submit"><br>

</form>

</html>
```

PHP CODE :-

```
<?php

$file=$_POST['file'];
```

```

$c=$_POST['b'];
switch($c)

{
    case 1 :
        $t=filetype($file);
        echo "type of file is :$t";
        break;
    case 2:
        $a=fileatime($file);
        echo "last accessed time of file is :$a<br>";
        echo "Last access time".date("F d Y H:i:s.",fileatime($file));
        break;
    case 3:
        $size=filesize($file);
        echo "the size of file is:$size";
        break;
    case 4:
        if(unlink($file))
            echo "file is deletd";
        else
            echo "file not deleted";

    default:"invalid choice";
}
?>

```

FDS

Q2A)

```

import matplotlib.pyplot as plt
import numpy as np
x = np.random.randn(50)
y = np.random.randn(50)

```

```
plt.plot(x,y)
plt.show()
plt.scatter(x,y,color='green')
plt.show()
plt.hist(x,color='yellow')
plt.show()
plt.boxplot(y, vert=False)
plt.show()
```

Q2B)

```
from matplotlib import pyplot as plt
import numpy as np
# Creating dataset
subjects = ['TCS', 'Data Science', 'OS',
            'JAVA', 'PHP', 'Python']
marks = [23, 17, 35, 29, 12, 33]
# Creating plot
fig = plt.figure(figsize =(10, 7))
plt.pie(marks, labels = subjects)
# show plot
plt.show()
```

slip=27

Q.1) Write a PHP program to read two file names from user and copy the content of first file into second file.

HTML CODE :-

```
<html>
<body>
<form action="file1.php" method="POST">
Enter 1st file name
<input type="text" name=txt1><br>
Enter 2nd file name
<input type="text" name=txt2><br>
<input type="submit" value="copy">
</form>
</body>
</html>
```

PHP CODE :-

```
<?php
    $f1=$_POST['txt1'];
```

```

$f2=$_POST['txt2'];
$file1=fopen($f1,"r")or exit("cant open file");
$file2=fopen($f2,"w")or exit("cant open file");
while(!feof($file1))
{
    $data=fread($file1,filesize($f1));
    fwrite($file2,$data);
}
echo "file appended";
fclose($file1);
fclose($file2);

?>

```

FDS

```

Q2A)
import pandas as p
from sklearn import preprocessing
d = pd.read_csv('D:\\yogita\\Data.csv')
label_encoder = preprocessing.LabelEncoder()
d['purchased']= label_encoder.fit_transform(d['purchased'])
one_hot_encoded_data = p.get_dummies(d, columns = ['country'])
print(one_hot_encoded_data)

```

slip-28

Q.1) Write a program to read a flat file “student.dat”, calculate the percentage and display the data from file in tabular format.(Student.dat file contains rollno, name, OS, WT, DS, Python, Java, CN)

Ans:-

```

<?php
if(file_exists("stud.dat"))
{
    $fp1=fopen("stud.dat","r");
    $buf1=fread($fp1,filesize("stud.dat"));
    $temprec=explode("\n",$buf1);
    $i=0;
    foreach($temprec as $t)

```

```

if(strlen($t)>0)
    $records[$i++]=explode(" ", $t);
    echo"<p>*****Student Detalis*****</p>";
    echo "<table border=2>";

echo"<tr><th>rollno</th><th>Name</th><th>OS</th><th>WT</th><th>DS</th><th>Python</th><th>Java</th><th>CN</th><th>ptage</th></tr>";

foreach($records as $rec)
{
    echo "<tr>";
    $k=1;
    $tot=0;
    foreach($rec as $f)
    {
        printf("<td>%s</td>", $f);
        $k++;
        if($k>3)
            $tot=$tot+$f;
    }
    $ptage=$tot/6.0;
    printf("<th>%.2f</th><br>", $ptage);
}
echo"</table>";
fclose($fp1);
} //if
else
echo " file not exists";
?>

```

FDS

Q2A)

```

import pandas as p
df=p.DataFrame(columns=['name','age','per'])
df.loc[0]=['rajesh',20,95]

```



```
df.loc[1]=['suresh',21,85]
df.loc[2]=['avinash',20,90]
df.loc[3]=['kunal',21,75]
df.loc[4]=['sakshi',20,80]
df.loc[6]=['xxx',np.nan,95]
df.loc[7]=['suresh',21,85]
df.loc[8]=['archana',22,91]
df.loc[9]=['kunal',20,np.nan]
print(df)
print(df.shape)
print(df.describe)
print(df.info())
print(df.dtypes)
df["remark"]=None
df
```