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SAVEETHA

**INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**

**March ‘18**

**A**

Course : B.E.

Subject Code : CS02401

Subject Name : Internet Programming – Protocol Design

Duration : 3 Hrs Max Marks : 100

**ANSWER KEY**

**Answer all the questions**

**PART A (5 x 4 = 20)**

1. Complete the following HTML program to add the following objects such as Text Box, Button, Combo Box and Radio Button.

<HTML>

<HEAD>

Image to upload

</HEAD>

<BODY>

<FORM>

Select image to upload:

<input type="file" name="fileToUpload" id="fileToUpload">

<input type="submit" value="Upload Image" name="submit">

</FORM>

</BODY> (4)

</BODY>

1. Implement a java script program to show the alert message after clicking the submit button. (4)
2. Complete the applet program to draw a colourful CAR with label (4)

class Car

{

Public void paint(Graphics g)

{

g.drawPolygon(x,y,8);

g.drawOval(a1,a2,20,20);

g.drawOval(a3,a4,20,20);

}

}

1. Write the steps and commands to install LAMP software. (4)

install LAMP

=================

https://www.digitalocean.com/community/tutorials/how-to-install-linux-apache-mysql-php-lamp-stack-on-ubuntu

1. sudo apt-get update

2. sudo apt-get install apache2

3. sudo apt-get install mysql-server libapache2-mod-auth-mysql php5-mysql

4. sudo mysql\_install\_db

5. sudo /usr/bin/mysql\_secure\_installation

====

install PHP

====

1. sudo apt-get install php5 libapache2-mod-php5 php5-mcrypt

2. sudo nano /etc/apache2/mods-enabled/dir.conf

Add index.php to the beginning of index files.

3. sudo nano /var/www/html/info.php

Add in the following line:

<?php

phpinfo();

?>

4.sudo service apache2 restart

5. http://localhost/info.php

1. Find the error of the following programme. (4)

<?php

$num=5

while($a!=0)

{

$rem=$num%10;

$rem=$rem+$sum;

$a=$a/10;

}

Echo “sum of the digit is = is $fact”;

?>

**PART B (5 x 6 = 30)**

1. Develop a java program to find the given number using linear search. (6)

import java.io.\*;

import java.util.\*;

class search

{

public static void main(String arg[])

{

int n,i,e,flag=0,index=0;

int a[]=new int[20];

System.out.println("enter the value of n :");

Scanner s=new Scanner(System.in);

n=s.nextInt();

System.out.println("enter the elements:");

for(i=0;i<n;i++)

{

a[i]=s.nextInt();

}

System.out.println("enter the searching element:");

e=s.nextInt();

for(i=0;i<n;i++)

{

if(a[i]==e)

{

flag=1;index=i;

}

}

if(flag==1)

{

System.out.println("element found at "+index);

}

else

System.out.println("not found");

}

}

1. Implement a java program to reverse the string. (6)

import java.io.\*;

import java.util.\*;

public class Reversestring

{

public static void main(String arg[])

{

System.out.println("Enter string to reverse:");

Scanner s = new Scanner(System.in);

String str = s.nextLine();

String reverse = " ";

for(int i = str.length() - 1; i >= 0; i--)

{

reverse = reverse + str.charAt(i);

}

System.out.println("Reversed string is:");

System.out.println(reverse);

}

}

1. Develop an html program to highlight the text like bold, italic and underline. (6)

<HTML>

<B>SAVEETHA</b>

<i>SAVEETHA</i>

<u>SAVEETHA</u>

<HTML>

1. Write the commands and steps to create a jar file. (6)

JAR FILE CREATION

=========================================================

1. keytool -genkey -keyalg rsa -alias 111

2. keytool -export -alias 111 -file SSE.crt

3. jar cfm SSE.jar Manifest.txt UserLogIn.class \*.class

4. keytool -export -alias 111 -file SSE.crt

5. jarsigner SSE.jar 111

1. Develop a PHP program to upload jpg, jpeg and png file into hard disk. (6)

html>

<body>

<form action="upload.php" method="post" enctype="multipart/form-data">

Select image to upload:

<input type="file" name="fileToUpload" id="fileToUpload">

<input type="submit" value="Upload Image" name="submit">

</form>

</body>

</html>

<?php

$target\_dir = "uploads/";

$target\_file = $target\_dir . basename($\_FILES["fileToUpload"]["name"]);

$uploadOk = 1;

$imageFileType = strtolower(pathinfo($target\_file,PATHINFO\_EXTENSION));

// Check if image file is a actual image or fake image

if(isset($\_POST["submit"])) {

$check = getimagesize($\_FILES["fileToUpload"]["tmp\_name"]);

if($check !== false)

{

echo "File is an image - " . $check["mime"] . ".";

$uploadOk = 1;

echo "UPload OK";

} else

{

echo "File is not an image.";

$uploadOk = 0;

}

}

// Check if file already exists

if (file\_exists($target\_file)) {

echo "Sorry, file already exists.";

$uploadOk = 0;

}

// Check file size

if ($\_FILES["fileToUpload"]["size"] > 500000) {

echo "Sorry, your file is too large.";

$uploadOk = 0;

}

// Allow certain file formats

if($imageFileType != "jpg" && $imageFileType != "png" && $imageFileType != "jpeg"

&& $imageFileType != "gif" ) {

echo "Sorry, only JPG, JPEG, PNG & GIF files are allowed.";

$uploadOk = 0;

}

// Check if $uploadOk is set to 0 by an error

if ($uploadOk == 0)

{

echo "Sorry, your file was not uploaded.";

// if everything is ok, try to upload file

} else

{

if (move\_uploaded\_file($\_FILES["fileToUpload"]["tmp\_name"], $target\_file)) {

echo "The file ". basename( $\_FILES["fileToUpload"]["name"]). " has been uploaded.";

} else

{

echo "Sorry, there was an error uploading your file.";

}

}

?>

**PART C (5 x 10 = 50)**

1. Create colourful website using html and submit into Mysql database. (10)

<HTML>

<TITLE>Home page</TITLE>

<Body>

<form id="form1" name="form1" method="post" action="submit.php">

<table>

<tr>

<td>userid</td>

<td><input type="text" name="userid"></td>

</tr>

<tr>

<td>name</td>

<td><input type="text" name="name"></td>

</tr>

<tr>

<td>subject</td>

<td><input type="text" name="subject"></td>

</tr>

<tr>

<td>semester</td>

<td><input type="text" name="semester"></td>

</tr>

<tr>

<td>year</td>

<td><input type="text" name="year"></td>

</tr>

<tr>

<td><input type="submit" name="submit"values="submit"></td>

</tr>

</table>

</form>

</Body>

</HTML>

<?php

$userid =$\_POST['userid'];

$name =$\_POST['name'];

$subject =$\_POST['subject'];

$semester=$\_POST['semester'];

$year=$\_POST['year'];echo '<br>';

echo $userid;echo '<br>';

echo $name;echo '<br>';

echo $subject;echo '<br>';

echo $semester;echo '<br>';

echo $year;echo '<br>';

$con=mysql\_connect("172.18.61.122","registration","sse123");

if(!$con)

{

die('could not connect'.mysql\_error());

}

mysql\_select\_db("registration",$con);

$sql="insert into subjects(userid,name,subject,semester,year)values('$userid','$name','$subject','$semester','$year')";

if(!mysql\_query($sql,$con))

{

die('error'.mysql\_error());

}

echo "success";

$sql = 'SELECT \* FROM subjects';

mysql\_select\_db('registration');

$retval = mysql\_query( $sql, $con );

if(! $retval ) {

die('Could not get data: ' . mysql\_error());

}

echo "<center><h1>Registered Subjects</h1></center>";

echo "<center> <table border='1'>

<tr>

<th>S.NO</th>

<th>USERID</th>

<th>NAME</th>

<th>SUBJECT</th>

<th>SEMESTER</th>

<th>YEAR</th>

</tr>" ;

$i=1;

while($row = mysql\_fetch\_array($retval, MYSQL\_ASSOC))

{

echo "<tr>";

echo "<td >

<ol >

".$i++."</ol></td>";

echo "<td>" . $row['userid'] . "</td>";

echo "<td>" . $row['name'] . "</td>";

echo "<td>" . $row['subject'] . "</td>";

echo "<td>" . $row['semester'] . "</td>";

echo "<td>" . $row['year'] . "</td>";

echo "</tr>";

}

echo "</table>";

echo "Fetched data successfully\n";

mysql\_close($con);

1. Develop an applet program to move a colour full 4 wheeler in up, down, front and back direction. (10)

/\*\*<applet code=car.class width=1000 height=1000>

</applet>

\*/

import java.applet.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.io.\*;

import java.net.\*;

public class movingcar extends Applet implements KeyListener

{

int a1=40,a2=100,a3=100,a4=100;

int x[]={10,10,40,60,90,110,150,150};

int y[]={100,60,60,40,40,60,60,100};

public void init()

{

addKeyListener(this);

}

public void paint(Graphics g)

{

g.drawPolygon(x,y,8);

g.drawOval(a1,a2,20,20);

g.drawOval(a3,a4,20,20);

}

public void keyPressed(KeyEvent ke)

{

int keycode=ke.getKeyCode();

switch(keycode)

{

case KeyEvent.VK\_UP:

for(int i=0;i<8;i++)

y[i]=y[i]-10;

a2=a2-10;

a4=a4-10;

try

{

Thread.sleep(100);

}catch(Exception e){}

repaint();

break;

case KeyEvent.VK\_DOWN:

for(int i=0;i<8;i++)

y[i]=y[i]+10;

a2=a2+10;

a4=a4+10;

try

{

Thread.sleep(100);

}catch(Exception e){}

repaint();

break;

case KeyEvent.VK\_LEFT:

for(int i=0;i<8;i++)

x[i]=x[i]-10;

a1=a1-10;

a3=a3-10;

try

{

Thread.sleep(100);

}catch(Exception e){}

repaint();

break;

case KeyEvent.VK\_RIGHT:

for(int i=0;i<8;i++)

x[i]=x[i]+10;

a1=a1+10;

a3=a3+10;

try

{

Thread.sleep(100);

}catch(Exception e){}

repaint();

break;

}

}

public void keyReleased(KeyEvent ke)

{

}

public void keyTyped(KeyEvent ke)

{

}

}

1. Develop a swing program to create employee form and submit the details into mysql database.(10)

import java.awt.event.\*;

import javax.swing.\*;

import java.awt.\*;

import java.sql.\*;

class emp extends JFrame implements ActionListener

{J

TextField t1,t2,t3,t4,t5,t6,t7,t8,t9,t10;

emp()

{

Container c;

c=this.getContentPane();

c.setLayout(new GridLayout(14,2));

JPanel p1=new JPanel();

JPanel p2=new JPanel();

JPanel p3=new JPanel();

JPanel p4=new JPanel();

JPanel p5=new JPanel();

JPanel p6=new JPanel();

JPanel p7=new JPanel();

JPanel p8=new JPanel();

JPanel p9=new JPanel();

JPanel p10=new JPanel();JPanel p11=new JPanel();

JPanel p12=new JPanel();

JPanel p13=new JPanel();

JPanel p14=new JPanel();

JLabel l1=new JLabel("HUMAN RESOURCE MANAGEMENT");

JLabel l2=new JLabel("CHENNAI");

JLabel l3=new JLabel("DATE");

JLabel l4=new JLabel("EMPLOYEE ENTRY FORM");

JLabel l5=new JLabel("SOCIAL SECURITY NO");

JLabel l6=new JLabel("SUPER SOCIAL SECURITY NO");

JLabel l7=new JLabel("DEPARTMENT NAME");

JLabel l8=new JLabel("DEPARTMENT NO");

JLabel l9=new JLabel("PROJECT NAME");

JLabel l10=new JLabel("FIRST NAME");

JLabel l11=new JLabel("MIDDLE NAME");

7

JLabel l12=new JLabel("LAST NAME");

JLabel l13=new JLabel("DATE OF BIRTH");

JLabel l14=new JLabel("YEAR");

JLabel l15=new JLabel("MONTH");

JLabel l16=new JLabel("DAY");

JLabel l17=new JLabel("ADDRESS");

JLabel l18=new JLabel("SEX");

JLabel l19=new JLabel("MALE");

JLabel l20=new JLabel("FEMALE");

JLabel l21=new JLabel("SALARY");

JLabel l22=new JLabel("SAVE");

JLabel l23=new JLabel("CLEAR ALL");

JLabel l24=new JLabel("BACK");

JTextField t1=new JTextField(20);

JTextField t2=new JTextField(20);

JTextField t3=new JTextField(20);

JTextField t4=new JTextField(20);

JTextField t5=new JTextField(20);

JTextField t6=new JTextField(20);

JTextField t7=new JTextField(20);

JTextField t8=new JTextField(20);

JTextField t9=new JTextField(20);

JTextField t10=new JTextField(20);

JButton b1=new JButton("submit");

b1.addActionListener(this);

JButton b2=new JButton("submit");

b2.addActionListener(this);

JButton b3=new JButton("submit");

b3.addActionListener(this);

p1.add(l1);

p2.add(l2);

p3.add(l3);

p4.add(l4);

p5.add(l5);

p5.add(t1);

p5.add(l6);

p5.add(t2);

p6.add(l7);

p6.add(t9);

p6.add(l8);

p6.add(t10);

p7.add(l9);

p7.add(t3);

p8.add(l10);

p8.add(t4);

p8.add(l11);

p8.add(t5);

p8.add(l12);

8

p8.add(t6);

p9.add(l13);

p9.add(l14);

p9.add(l15);

p9.add(l16);

p10.add(l17);

p10.add(t7);

p11.add(l18);

p12.add(l19);

p12.add(l19);

p12.add(l20);

p13.add(l21);

p13.add(t8);

p14.add(l22);

p14.add(b1);

p14.add(l23);

p14.add(b2);

p14.add(l24);

p14.add(b3);

c.add(p1);

c.add(p2);

c.add(p3);

c.add(p4);

c.add(p5);

c.add(p6);

c.add(p7);

c.add(p8);

c.add(p9);

c.add(p10);

c.add(p11);

c.add(p12);

c.add(p13);

c.add(p14);

}

public void actionPerformed(ActionEvent ae)

{

try

{

Class.forName("com.mysql.jdbc.Driver");

String url="jdbc:mysql://172.18.61.33:3306/registration";

Connection

con=DriverManager.getConnection(url,"registration","sse123");

String query="insert into subjects(social security No,super social security

No,project name,first name,middle name,last

name,address,salary)values(?,?,?,?,?,?,?,?,?,?)";

PreparedStatement st=con.prepareStatement(query);

st.setString(1,t1.getText());

st.setString(2,t2.getText());

9

st.setString(3,t3.getText());

st.setString(4,t4.getText());

st.setString(5,t5.getText());

st.setString(6,t6.getText());

st.setString(7,t7.getText());

st.setString(8,t8.getText());

st.setString(9,t8.getText());

st.setString(10,t8.getText());

st.executeUpdate();

System.out.println("success");

st.close();

con.close();

}catch(Exception e){System.out.println(e);}

}

public static void main(String arg[])

{ emp e1=new emp();

e1.setSize(1200,1200);

e1.show();

}}

1. Develop a program to create a chat application using UDP protocol. (10)

import java.io.\*;

import java.net.\*;

public class UDPClient

{

public static DatagramSocket Socket;

public static DatagramPacket dp;

public static BufferedReader bf;

public static InetAddress ia;

public static byte buf[]=new byte[1024];

public static int cport=3789,sport=3790;

public static void main(String arg[])throws Exception

{

Socket=new DatagramSocket(cport);

dp=new DatagramPacket(buf,buf.length);

bf=new BufferedReader(new InputStreamReader(System.in));

ia=InetAddress.getLocalHost();

System.out.println("Server is Running");

while(true)

{

String str1=new String(bf.readLine());

buf=str1.getBytes();

Socket.send(new DatagramPacket(buf,buf.length,ia,sport));

Socket.receive(dp);

String str=new String(dp.getData(),0,dp.getLength());

System.out.println(str);

}

}

}

import java.io.\*;

import java.net.\*;

public class UDPServer

{

public static DatagramSocket Socket;

public static DatagramPacket dp;

public static BufferedReader bf;

public static InetAddress ia;

public static byte buf[]=new byte[1024];

public static int cport=3789,sport=3790;

public static void main(String arg[])throws Exception

{

Socket=new DatagramSocket(sport);

dp=new DatagramPacket(buf,buf.length);

bf=new BufferedReader(new InputStreamReader(System.in));

ia=InetAddress.getLocalHost();

System.out.println("Server is Running");

while(true)

{

Socket.receive(dp);

String str=new String(dp.getData(),0,dp.getLength());

System.out.println(str);

String str1=new String(bf.readLine());

buf=str1.getBytes();

Socket.send(new DatagramPacket(buf,buf.length,ia,cport));

}

}

}

1. Develop a program to create a protocol design for machine to machine communication. (10)

import java.io.\*;

import java.net.\*;

class machineclient

{

public static void main(String arg[])throws IOException

{

String str,str1="";

int i;

String words[]={"hi","what doing?","had break fast","studied?","what home work on tomorrow?"};

for(i=0;i<5;i++)

System.out.println(words[i]);

DatagramSocket serverSocket;

DatagramPacket dp;

BufferedReader dis;

InetAddress ia;

byte buff[]=new byte[1024];

int cport=1789,sport=1790;

serverSocket=new DatagramSocket(cport);

dp=new DatagramPacket(buff,buff.length);

dis=new BufferedReader(new InputStreamReader(System.in));

ia=InetAddress.getByName("localhost");

System.out.println("Client is Running");

i=0;

while(true)

{

i++;

if(i==5)

i=0;

str1=words[i];

try

{

Thread.sleep(1000);

}catch(Exception e){System.out.print(e);}

buff=str1.getBytes();

serverSocket.send(new DatagramPacket(buff,str1.length(),ia,sport));

serverSocket.receive(dp);

str=new String(dp.getData(),0,dp.getLength());

if(str.equals("stop"))

{

System.out.print("Terminated");break;

}

System.out.print("Server:"+str);

}

}

}

**i**mport java.io.\*;

import java.net.\*;

class machineserver

{

public static void main(String arg[])throws IOException

{

String str,str1;

DatagramSocket serverSocket;

DatagramPacket dp;

BufferedReader dis;

InetAddress ia;

byte buff[]=new byte[1024];

int cport=1789,sport=1790;

serverSocket=new DatagramSocket(sport);

dp=new DatagramPacket(buff,buff.length);

dis=new BufferedReader(new InputStreamReader(System.in));

ia=InetAddress.getByName("localhost");

System.out.println("Server is Running");

while(true)

{

serverSocket.receive(dp);

str=new String(dp.getData(),0,dp.getLength());

if(str.equals("stop"))

{

System.out.print("Terminated");break;

}

System.out.print("client:"+str);

//str1=new String(dis.readLine());

str1="hello client";

buff=str1.getBytes();

serverSocket.send(new DatagramPacket(buff,str1.length(),ia,cport));

}

}

}