BIL103E - Introduction to Information Systems and Computer Engineering

Final Exam 07.01.2009 (Keys)

1)

LAN: Local Area Network	WAN: Wide Area Network
HTTP: Hyper Text Transport Protocol	URL: Uniform Resource Locator
TCP/IP: Transmission Control	DNS: Domain Name System
Protocol / Internet Protocol	-
Modem: Modulator / Demodulator	FTP: File Transfer Protocol
HTML: Hyper Text Markup Language	ADSL: Asymmetric Digital Subscriber Line

2)

Repeater: Repeater is a device with two ports that just amplifies the signal it receives. **Hub:** Hub is a multiport repeater to enhance signal within the same LAN. A hub joins

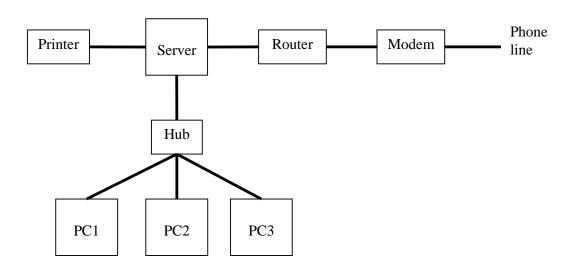
multiple computers together to form a single network segment.

Modem: Modem is a device that converts digital signal to analog signal (modulation) and vice versa (demodulation). Modulation is neccessary because the telephone lines were designed to transmit analog signals only.

Switch: Switch is a small device that joins multiple computers together within one LAN. Switch can be considered as a multi-port bridge and a smart hub.

Router: Router is a WAN device that connects one network to another network.

3)



4)

```
<html>
<body>
<H2>CONTENT OF BOOK</H2>
<P>
<UL>
<LI> <a href="Chap1.pdf"> Chapter1 </a> </LI>
<LI> <a href="Chap2.pdf"> Chapter2 </a> </LI>
<LI> <a href="Chap3.pdf"> Chapter3 </a> </LI>
<LI> <a href="Chap4.pdf"> Chapter3 </a> </LI>
<LI> <a href="Chap4.pdf"> Chapter4 </a> </LI>
</body>
```

5)

6a)

```
<html> <body>
<form action="central.php" method="post">

PLEASE ENTER THE COORDINATES OF CENTRAL POINT <BR>
CX: <input type="number" name="CX"> <BR>
CY: <input type="number" name="CY"> <BR>
<input type="submit" value="Send">
  <input type="reset" value="Clear">
  </form>
</body> </html>
```

```
<?php
CX = POST['CX'];
CY = POST['CY'];
echo "<H3> Coordinates of Central Point: CX = ". $CX. ", CY = ". $CY . "</H3>";
$file = fopen("coordinates.txt", "r") or exit("Dosya acilamadi!");
echo "";
echo "X Coordinate";
echo "Y Coordinate";
echo "Distance to Central Point";
$NearestDist = 9999999999; // Initial value
while(!feof($file))
 $satir = fgets($file);
 $wordChunks = explode("\t", $satir); // Puts into word array
 $X = $wordChunks[0];
 $Y = $wordChunks[1];
 sigma = sqrt(pow($X - $CX, 2) + pow($Y - $CY, 2));
 echo "":
 echo "".$X."";
 echo "".$Y."";
 echo "".$distance."";
 echo "";
 if ($distance < $NearestDist)
   $NearestDist = $distance;
   $XNearest = $X;
   $YNearest = $Y;
}
echo "";
fclose($file);
echo "<P> <H3> (" . $XNearest . " , " . $YNearest . ") is the nearest point with Distance = " . $NearestDist;
?>
```