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PRACTICAL NO. 1
SOCKET PROGRAMMING

Aim : Program forexchanging information between client and server usingsocket programming.

Step 1 :New Project-> java-> java Application-> file Name->Finish
Step 2: Java Source Package-> new-> Java Class

Server.java

```
package socketeg;
import java.net.*;
import java.io.*;

public class server {
   Socket socket;
DataInputStream input;
ServerSocket server;
public server(int port) throws IOException
{
try{
   server=new ServerSocket(port);
System.out.println("server started");
System.out.println("waiting for the client");

     socket=server.accept();
System.out.println("client accpeted");

     input= new DataInputStream(new BufferedInputStream(socket.getInputStream()));
     String line="";
     while(!line.equals("bye"))
     {
        line = input.readUTF();
System.out.println(line);

     }
input.close();
socket.close();
}
catch(IOExceptioni){

System.out.println(i);
}
}
```

```
public static void main(String[] args) throws IOException{
server serverr= new server(5000);
}
}
```

Client.java

```
package socketeg;

import java.net.*;
import java.io.*;

public class client {

Socket socket;
DataInputStream input;
DataOutputStream out;

public client(String address, int port) throws IOException
{
   try
   {
     socket = new Socket(address, port);
System.out.println("connected");

      input = new DataInputStream(System.in);
      out= new DataOutputStream(socket.getOutputStream());

      String line = "";

      while(!line.equals("bye"))
     {
          line = input.readLine();
out.writeUTF(line);

     }
input.close();
socket.close();
out.close();
}
  catch(IOExceptioni){
System.out.println(i);
  }
}
public static void main(String args[]) throws IOException{
client clientt = new client("127.0.0.1",5000);
}
}
```

Output:

Step 1: first run the server.java
Step 2:then run the client.java
Step 3: enter msg from client side
Step 4: get the msg from server side
Step 5: bye will end the connection

PRACTICAL NO. 02
JAVA REMOTE METHOD INVOCATION (RMI)

Aim : Program for creating a calculator on client side .

Interface file (adder.java)

```
package rmiexample;
import java.rmi.Remote;
import java.rmi.RemoteException;

public interface adder extends Remote{
   public int add(int a, int b) throws RemoteException;
}
```

Java file (Server.java)

```
package rmiexample;
import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.rmi.server.UnicastRemoteObject;

public class server extends UnicastRemoteObject implements adder {

   public server() throws RemoteException {
      super();
   }

   @Override
   public int add(int a, int b) throws RemoteException {
      return a + b;
   }

   public static void main(String args[]) throws RemoteException {
      Registry reg = LocateRegistry.createRegistry(4444);
reg.rebind("server1", new server());
System.out.println("server is running");
   }
}
```

Java file (Client.java)

```
package rmiexample;

import java.rmi.NotBoundException;
import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.util.Scanner;


public class client {
  public static void main (String args []) throws RemoteException, NotBoundException
  {
  Registry reg = LocateRegistry.getRegistry(4444);
  adder ad = (adder) reg.lookup("server1");

  Scanner sc = new Scanner( System.in);
System.out.println("Enter first no.");
  int a = sc.nextInt();

System.out.println("Enter second no.");
  int b = sc.nextInt();
 int result = ad.add(a,b);
System.out.println("addition = "+ result);
  }
}
```

Output:

Step 1: run the server.java

Step 2: run the client.java

B] Program add sub mul div:

Interface (adder2.java)

```
package rmiexample;

import java.rmi.Remote;
import java.rmi.RemoteException;

public interface adder2 extends Remote {
    public int add(int a, int b) throws RemoteException;
    public int sub(int a, int b) throws RemoteException;
    public int mul(int a, int b) throws RemoteException;
    public int div(int a, int b) throws RemoteException;
}
```

Java file(server2.java)

```
package rmiexample;

import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.rmi.server.UnicastRemoteObject;

/**
 *
 * @author student
```

```
 */
public class server2 extends UnicastRemoteObject implements adder2 {

    public server2() throws RemoteException {
        super();
    }

    @Override
    public int add(int a, int b) throws RemoteException {
        //throw new UnsupportedOperationException("Not supported yet."); //To change body of generated
methods, choose Tools | Templates.
        return a + b;
    }

    public int sub (int a, int b) throws RemoteException{
    return a- b;
    }
    public int mul (int a, int b) throws RemoteException{
    return a * b;
    }
    public int div (int a, int b) throws RemoteException{
    return a /b;
    }
    public static void main(String args[]) throws RemoteException {
        Registry reg = LocateRegistry.createRegistry(4445);
reg.rebind("server2", new server2());
System.out.println("server is running");

    }
}
```

Java (Client.java)

```
package rmiexample;

import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.util.Scanner;

public class client2 {
   public static void main(String[] args) {
        int result = 0;
        double result1 = 0.0;
        String decision = "No";

        try {
            do {
                Registry reg = LocateRegistry.getRegistry(4445);
                adder2 add = (adder2) reg.lookup("server2");
                Scanner sc = new Scanner(System.in);
System.out.println("enter the option want to perform a task");
System.out.println("1. Addition");
System.out.println("2. Substraction");

System.out.println("3. Multipication");
System.out.println("4. Division");
                int no = sc.nextInt();
```

```
System.out.println("Enter first number");

            int a = sc.nextInt();
System.out.println("Enter Second number");
            int b = sc.nextInt();

            switch (no) {
               case 1:
                  result = add.add(a, b);
System.out.println("addition" + result);

                  break;
               case 2:
                  result = add.sub(a, b);
System.out.println("Substrication " + result);
                  break;
               case 3:
                  result = add.mul(a, b);
System.out.println("Multipication" + result);

                  break;
               case 4:
                  result1 = add.div(a, b);
System.out.println("Division" + result1);
                  break;
            }
System.out.println("Do you want to calculate again Yes/No");
            decision = sc.next();
System.out.println(decision);

         } while (!decision.equals("No"));

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

```
run:
enter the option want to perform a task
1. Addition
2. Substraction
3. Multipication
4. Division

2
Enter first number
3
Enter Second number
1
Substrication 2
Do you want to calculate again Yes/No
Yes
Yes
enter the option want to perform a task
1. Addition
2. Substraction
3. Multipication
4. Division
3
Enter first number
2
Enter Second number
3
Multipication6
Do you want to calculate again Yes/No
No
No
BUILD SUCCESSFUL (total time: 26 seconds)
```

PRACTICAL NO. 3

WEB SERVICES

Aim : Program to convert Fahrenheit to Celsius and Celsius to Fahrenheit.

Temperature.java

```
package com.example;

import javax.jws.WebService;
import javax.jws.WebMethod;
import javax.jws.WebParam;

@WebService(serviceName = "TemperatureConv")
public class TemperatureConv {
   @WebMethod(operationName = "fahToCelsius")
   public double fahToCelsius(@WebParam(name = "a") double a) {
      double result = (a-32 )*5/9;
       return result;
   }
   @WebMethod(operationName = "CelsiusTofah")
   public double CelsiusTofah(@WebParam(name = "a") double a) {
      double result = (a * 9 / 5) + 32 ;
       return result;
   }

}
```

tempretureClientt - NetBeans IDE 8.2
New
Build
Clean and Build
Clean
Verify
Generate Javadoc
Run
Deploy
Debug
Profile
Test RESTful Web Services
Test
Run Selenium Tests
Open Required Projects
Close
Rename...
Move...
Copy...
Delete
Find...
Inspect and Transform...
Versioning
History
Properties
Folder...
JSP...
Web Service Client...
Web Service...
RESTful Web Services from Entity Classes...
Servlet...
Java Class...
Timer Session Bean...
Java Package...
Web Service from WSDL...
Entity Class...
JSF Pages from Entity Classes...
Entity Classes from Database...
RESTful Web Services from Patterns...
HTML...
Other...

New Web Service Client
Steps
1. Choose File Type
2. WSDL and Client Location
WSDL and Client Location
Specify the WSDL file of the Web Service.
Project:
Local File:
WSDL URL:
host:8080/Temperature/TemperatureConv?WSDL
IDE Registered:
Specify a package name where the client java artifacts will be generated:
Project:
tempretureClientt
Package:
Generate Dispatch code
< Back
Next >
Finish
Cancel
Help

tempretureClientt - NetBeans IDE 8.2
New
Find...
Paste
History
Properties
Folder...
JSP...
Web Service Client...
Web Service...
RESTful Web Services from Entity Classes...
Servlet...
Java Class...
Timer Session Bean...
Java Package...
Web Service from WSDL...
Entity Class...
JSF Pages from Entity Classes...
Entity Classes from Database...
RESTful Web Services from Patterns...
HTML...
Other...

Document1 - Word (Product Activation Failed)
temprtureClientt - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services
Temperature
temprtureClientt
Web Pages
WEB-INF
index.html
index.jsp
Source Packages
Generated Sources (jax-ws)
Libraries
Web Service References
Configuration Files
New Web Service
Steps
1. Choose File Type
2. Name and Location
Name and Location
Web Service Name: index.html
Project: temprtureClientt
Location: Source Packages
Package: index
Create Web Service from Scratch
Create Web Service from Existing Session Bean
Enterprise Bean:
Browse...
Implement Web Service as Stateless Session Bean
< Back
Next >
Finish
Cancel
Help
Navigator
html
head
body
run:
BUILD SUCCESSFUL (total time: 0 seconds)
Page 3 of 3
78 words
English (United States)
ENG
13:36
11-11-2019

Index.html

Document1 - Word (Product Activation Failed)
temprtureClientt - NetBeans IDE 8.2
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services
Temperature
temprtureClientt
Web Pages
New
Find... Ctrl+F
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Delete
Refactor
History
Tools
Properties
Folder...
JSP...
Web Service Client...
Web Service...
RESTful Web Services from Entity Classes...
Servlet...
Java Class...
Timer Session Bean...
Java Package...
Web Service from WSDL...
Entity Class...
JSF Pages from Entity Classes...
Entity Classes from Database...
RESTful Web Services from Patterns...
HTML...
Other...
Start Page
index.html
TemperatureConv.java
index.jsp
Source History
<!DOCTYPE html>
<html>
Navigator
html
head
meta
title
body
hr
Output
Java DB Database Process
GlassFish Server 4.1.1
Retriever Output
temprtureClientt (run)
Completed incremental distribution of temprtureClientt
run-deploy:
Browsing: http://localhost:8080/temprtureClientt/index.html
run-display-browser:
run:
BUILD SUCCESSFUL (total time: 0 seconds)
Page 4 of 4
79 words
English (India)
ENG
13:38
11-11-2019

Index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>JSP Page</title>
</head>
<body>
<%-- start web service invocation --%><hr/>
<%
```

```
    try {
            com.example.TemperatureConv_Service service = new com.example.TemperatureConv_Service();
            com.example.TemperatureConv port = service.getTemperatureConvPort();
             // TODO initialize WS operation arguments here
            double a =Double.parseDouble(request.getParameter("t1"));
        String btn = request.getParameter("b1");
             double result;
            if(btn.equals("Fahrenheit")){
            result = port.celsiusTofah(a);
out.println("Fahrenheit = " + result);
            }
            else{
            result = port.fahToCelsius(a);
out.println("Celsius = "+result);
            }
    } catch (Exception ex) {
            // TODO handle custom exceptions here
    }  %></body></html>
```

OUTPUT:

PRACTICAL NO.4
XEN VIRTUALIZATION AND XEN CENTER

Aim: - Implement Xen virtualization and manage with Xen Center

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
Shared VMs
Home
XenServer
WORKSTATION 15.5 PRO™
Connect to a Remote Server
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
xen
Location:
C:\prac4 xen
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel
vmware
Type here to search
2:28 PM
11/29/2019

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
Shared VMs
Home
XenServer
WORKSTATION 15.5 PRO™
Connect to a Remote Server
New Virtual Machine Wizard
Processor Configuration
Specify the number of processors for this virtual machine.
Processors
Number of processors:
2
Number of cores per processor:
2
Total processor cores:
4
Help
< Back
Next >
Cancel
vmware
Type here to search
2:28 PM
11/29/2019

New Virtual Machine Wizard
Memory for the Virtual Machine
How much memory would you like to use for this virtual machine?
Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.
Memory for this virtual machine:
6208
MB
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
Maximum recommended memory:
13.4 GB
Recommended memory:
2 GB
Guest OS recommended minimum:
1 GB
Help
< Back
Next >
Cancel

New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
Maximum disk size (GB):
80.0
Recommended size for Windows 10 x64: 60 GB
Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel

New Virtual Machine Wizard
Specify Disk File
Where would you like to store the disk file?
Disk file
One 80 GB disk file will be created using this file name.
xen.vmdk
Browse...
Help
< Back
Next >
Cancel

xen - VMware Workstation
GNU GRUB version 2.02~beta2
install
no-serial
safe
multipath
shell
Use the ▲ and ▼ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands
before booting or 'c' for a command-line.
The highlighted entry will be executed automatically in 4s.

xen - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
Shared VMs
Home
XenServer
xen
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 6.1 GB
Processors 4
Hard Disk (SCSI) 80 GB
CD/DVD (SATA) Using file D:\ne...
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
Virtual Machine Details
State: Powered off
Configuration file: C:\prac4 xen\xen.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available
Type here to search
2:31 PM
11/29/2019

Select Keymap
Please select the keymap you would like to use:
[qwerty] us
[qwerty] uk
[azerty] azerty
[azerty] be-latin1
[azerty] fr
[azerty] fr-latin0
[azerty] fr-latin1
[azerty] fr-latin9
Ok

Welcome to XenServer Setup
This setup tool can be used to install or upgrade XenServer on your system or restore your server from backup. Installing XenServer will erase all data on the disks selected for use.
Please make sure you have backed up any data you wish to preserve before proceeding.
To load a device driver press <F9>.
To setup advanced storage classes press <F10>.
Ok
Reboot

End User License Agreement
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Accept EULA
Back

XenServer 7.0
19:49:32
localhost
Configuration
Customize System
Status Display
Network and Management Interface
Authentication
Virtual Machines
Disks and Storage Repositories
Resource Pool Configuration
Hardware and BIOS Information
Keyboard and Timezone
Remote Service Configuration
Backup, Restore and Update
Technical Support
Reboot or Shutdown
Local Command Shell
VMware, Inc.
VMware7,1
XenServer 7.0.0-125380c
Management Network Parameters
<No network configured>
Press <Enter> to display the SSL key fingerprints for this host
<Enter> OK <Up/Down> Select
<Enter> Fingerprints <F5> Refresh

XenServer 7.0
14:21:25
localhost
Configuration
Customize System
Status Display
Network and Management Interface
Authentication
Local Command Shell
Press <Enter> to start a local command shell on this server. This shell will have root privileges.
Login
Please log in to perform this function
Username root
Password ********
<Enter> Next/OK <Esc> Cancel <Tab> Next
Local Command Shell
<Enter> OK <Up/Down> Select

PRACTICAL NO.5
VMWARE ESXI SERVER AND XENCENTER

Aim : Implement virtualization using VMWare ESXi Server and managing withXenCenter.

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
Shared VMs
Home
VMware ESXi 5.x
WORKSTATION 15.5 PRO™
Connect to a Remote Server
New Virtual Machine Wizard
Processor Configuration
Specify the number of processors for this virtual machine.
Processors
Number of processors: 2
Number of cores per processor: 1
Total processor cores: 2
Help
< Back
Next >
Cancel
vmware
Type here to search
3:13 PM
11/29/2019

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
Shared VMs
Home
VMware ESXi 5.x
WORKSTATION 15.5 PRO™
Connect to a Remote Server
New Virtual Machine Wizard
Memory for the Virtual Machine
How much memory would you like to use for this virtual machine?
Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
Memory for this virtual machine: 6208 MB
Maximum recommended memory: 13.4 GB
Recommended memory: 4 GB
Guest OS recommended minimum: 4 GB
Help
< Back
Next >
Cancel
vmware
Type here to search
3:14 PM
11/29/2019

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
Shared VMs
Home
VMware ESXi 5.x
WORKSTATION 15.5 PRO™
Connect to a Remote Server
New Virtual Machine Wizard
Specify Disk File
Where would you like to store the disk file?
Disk file
One 80 GB disk file will be created using this file name.
VMware ESXi 5.x (2).vmdk
Browse...
Help
< Back
Next >
Cancel
vmware
Type here to search
3:14 PM
11/29/2019

VMware ESXi 5.x (2) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
VMware ESXi 5.x (2)
Shared VMs
Home
VMware ESXi 5.x
VMware ESXi 5.x (2)
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8400 CPU @ 2.80GHz
6.2 GiB Memory
vfc loaded successfully.
Click in the virtual screen to send keystrokes
Install VMware ESXi 5.x as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Change Disc
Help
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
3:15 PM
11/29/2019

VMware ESXi 5.x (2) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
VMware ESXi 5.x (2)
Shared VMs
Home
VMware ESXi 5.x
VMware ESXi 5.x (2)
Welcome to the VMware ESXi 5.5.0 Installation
VMware ESXi 5.5.0 installs on most systems but only systems on VMware's Compatibility Guide are supported.
Consult the VMware Compatibility Guide at: http://www.vmware.com/resources/compatibility
Select the operation to perform.
(Esc) Cancel (Enter) Continue
Click in the virtual screen to send keystrokes
Install VMware ESXi 5.x as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Change Disc
Help
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
3:17 PM
11/29/2019

VMware ESXi 5.x (2) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
VMware ESXi 5.x (2)
Shared VMs
Home
VMware ESXi 5.x
VMware ESXi 5.x (2)
Configure Lockdown Mode
Configure Management Network
Restart Management Network
Test Management Network
Network Restore Options
Configure Keyboard
Troubleshooting Options
View System Logs
View Support Information
Reset System Configuration
localhost
IP Address:
192.168.13.131
Network identity acquired from DHCP server 192.168.13.254
IPv6 Addresses:
fe80::20c:29ff:fedf:b12a/64
To view or modify this host's management network settings in detail, press <Enter>.
<Enter> More
<Esc> Log Out
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
Click in the virtual screen to send keystrokes
Install VMware ESXi 5.x as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Change Disc
Help
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
3:30 PM
11/29/2019

VMware ESXi 5.x (2) - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
XenServer
xen
VMware ESXi 5.x
VMware ESXi 5.x (2)
Shared VMs
Home
VMware ESXi 5.x
VMware ESXi 5.x (2)
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8400 CPU @ 2.80GHz
6.2 GiB Memory
Download tools to manage this host from:
http://192.168.13.131/ (DHCP)
http://[fe80::20c:29ff:fedf:b12a]/ (STATIC)
Click in the virtual screen to send keystrokes
Install VMware ESXi 5.x as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Change Disc
Help
To direct input to this VM, click inside or press Ctrl+G.

Type here to search
4:15 PM
11/29/2019
prac-5 cc - Microsoft Word
File Home Insert Page Layout References Mailings Review View
Paste
Cut
Copy
Format Painter
Clipboard
Calibri (Body)
11
Font
Paragraph
Normal
No Spaci...
Heading 1
Heading 2
Title
Subtitle
Subtle Em...
Emphasis
Change Styles
Find
Replace
Select
Editing
Navigation
Search Document
This document does not contain headings.
To create navigation tabs, create headings in your document by applying Heading Styles.
192.168.13.131 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home
Inventory
Inventory
192.168.13.131
localhost.localdomain VMware ESXi, 5.5.0, 1331820 | Evaluation (60 days remaining)
Getting Started
Summary
Virtual Machines
Resource Allocation
Performance
Configuration
Local Users & Group
What is a Host?
A host is a computer that uses virtualization software, such as ESX or ESXi, to run virtual machines. Hosts provide the CPU and memory resources that virtual machines use and give virtual machines access to storage and network connectivity.
You can add a virtual machine to a host by creating a new one or by deploying a virtual appliance.
The easiest way to add a virtual machine is to deploy a virtual appliance. A virtual appliance is a pre-built virtual machine with an operating system and software already installed. A new virtual machine will need an operating
Virtual Machines
Recent Tasks
Name, Target or Status contains:
Clear
Name
Target
Status
Details
Initiated by
Requested Start Ti...
Start Time
Completed
Tasks
Evaluation Mode: 60 days remaining
root
Page: 18 of 18
Words: 0
70%
Type here to search
4:21 PM
11/29/2019

PRACTICAL NO. 06
WINDOWS HYPER V VIRTUALIZATION

Aim: Implement Windows Hyper V virtualization

First we have to uninstall vmware software if already installed on computer because theVMware Workstation installer does not support running on a Hyper-V virtual machine. after uninstalling vmware we can proceed to next step go to control panel and click onuninstall a program.

Click on Turn windows features on or off.

Now in windows features check on Hyper-V option.

After Restart **Search for hyper-v manager in search box and click on that**

for creating virtual machine first we have to create virtual switch click onvirtual switch manager option.

Select External as a connection type and then click on create virtual switch.

Create new Virtual switch and install windows XP .iso

and virtual machine will start.

PRACTICAL NO. 07
MICROSOFT AZURE

Aim: Develop application for Microsoft Azure.

Step 1:

To develop an application for Windows Azure on Visual Studio install the

"Microsoft Azure SDK for .NET (VS 2010) – 2.8.2.1"

Step2:

Turn windows Features ON or OFF:

Go to Control panel and click on programs.

Turn Windows features on or off.

Step3:

Now, Start the visual studio 2010 and Go To File->New->Project

Expand Visual C#-> Select Cloud

Right Click on WebRole1>>ADD>>New Item

Add a New web Form. Give it a name. Click Add

Deploy the project:

Run Project

Welcome TO Windows Azure.....!!!!

PRACTICAL NO. 08
GOOGLE APP ENGINE

Aim : Develop application for Google App Engine

eclipse-workspace - firstapp/src/main/java/HelloAppEngine.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

firstapp

HelloAppEngine.java | App Engine Standard at localhost

```
1  import java.io.IOException;
7
8  @WebServlet(
9      name = "HelloAppEngine",
10     urlPatterns = {"/hello"}
11 )
12 public class HelloAppEngine extends HttpServlet {
13
14   @Override
15   public void doGet(HttpServletRequest request, HttpServletResponse response)
16       throws IOException {
17
18     response.setContentType("text/plain");
19     response.setCharacterEncoding("UTF-8");
20
21     response.getWriter().print("Hello App Engine!\r\n");
22
23   }
24 }
```

Outline: HelloAppEngine — doGet(HttpServletRequest, HttpServletRespons

Markers | Properties | Servers | Data Source Explorer | Snippets | Console

App Engine Standard at localhost

2019-12-02 14:18:49.890:INFO:oejs.AbstractConnector:main: Started NetworkTrafficSelectChannelConnector@2ac273d3{HTTP/1.1,[http/1.1]}{localhost:8080}

Writable | Smart Insert | 24 : 2 : 600

eclipse-workspace - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer

There are no projects in your workspace.
To add a project:

- Create a Maven project
- Creates an App Engine Standard Java project.
- Creates an App Engine Flexible Java project.
- Create a Java EE EAR project
- Create a Dynamic Web project
- Create an EJB project
- Create a Connector project
- Create a Java EE application client project
- Create a generic deployable web project.
- Create a JPA project
- Create a project...
- Import projects...

Create New Project
Run on App Engine
Debug on App Engine
Deploy to App Engine Standard...
Deploy to App Engine Flexible...
Deploy WAR/JAR File to App Engine Flexible...
Manage Google Accounts...
Submit Issue or Feedback...
Status: All services available

Google App Engine Standard Java Project...
Google Cloud Dataflow Java Project...
Creates an App Engine Standard Java project.

Outline | Task List

There is no active editor that provides an outline.

eclipse-workspace - firstapp/src/main/java/HelloAppEngine.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
firstapp
HelloAppEngine.java
App Engine Standard at localhost
import java.io.IOException;
@WebServlet(
name = "HelloAppEngine"
urlPatterns = {"/hello"
}
public class HelloAppEngine
@Override
public void doGet(HttpSer
throws IOException {
response.setContentType
response.setCharacterEn
response.getWriter().pr
}
}
Undo Ctrl+Z
Revert File
Save Ctrl+S
Open Declaration F3
Open Type Hierarchy F4
Open Call Hierarchy Ctrl+Alt+H
Show in Breadcrumb Alt+Shift+B
Quick Outline Ctrl+O
Quick Type Hierarchy Ctrl+T
Open With
Show In Alt+Shift+W
Cut Ctrl+X
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Quick Fix Ctrl+1
Source Alt+Shift+S
Refactor Alt+Shift+T
Local History
References
Declarations
Add to Snippets...
Coverage As
Run As
Debug As
Profile As
Team
Compare With
Replace With
Validate
Preferences...
Remove from Context Ctrl+Alt+Shift+Down
1 Run on Server Alt+Shift+X, R
2 App Engine
Run Configurations...
Outline
Task List
HelloAppEngine
doGet(HttpServletRequest, HttpServletRespons
Markers Properties Servers
App Engine Standard at localhost
Type here to search
2:21 PM
12/2/2019

eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Quick Access
Project Explorer
There are no projects in your workspace.
To add a project:
Create a Maven project
Creates an App Engine Standard Java project.
Creates an App Engine Flexible Java project.
Create a Java EE EAR project
Create a Dynamic Web project
Create an EJB project
Create a Connector project
Create a Java EE application client project
Create a generic deployable web project.
Create a JPA project
Create a project...
Import projects...
New App Engine Standard Project
App Engine Standard Project
Create a new Eclipse project for App Engine standard environment development.
Project name: firstapp
Use default location
Location: C:\Users\Abhijeet Salvi\eclipse-workspace\firstapp
Browse...
Java version: Java 8, Servlet 3.1
Java package:
App Engine service: default
Create as Maven project
Maven project coordinates
Group ID:
Artifact ID:
Version: 0.1.0-SNAPSHOT
Libraries to add to build path
App Engine API
Google Cloud Endpoints
Objectify
Finish
Cancel
Outline
Task List
There is no active editor that provides an outline.
Markers
0 items
Description
Resource
Path
Location
Type
0 items selected
Type here to search
1:52 PM
12/2/2019

Run Configurations
Create, manage, and run configurations
firstappcc-260808 does not exist.
Name: App Engine Standard at localhost
Server
Arguments
Environment
Cloud Platform
Account: pradgya@gmail.com
Project:
Filter projects by name or ID
Name
ID
FirstAppCC
firstappcc-260808
FlutterAppFB
flutterappfb
IITP-Connect-development
iitp-connect-development
pcacs
pcacs-3b3b3
pcacs
pcacs-9db3b
pcacs timetable tt
pcacs-timetable-tt
pcacstimetabledb
pcacstimetabledb
PCASC-TimeTable
pcasc-timetable
PillaisTimetableDB
pillaistimetabledb
Service key: firstappcc-260808
Browse...
Create New Key
Revert
Apply
Run
Close
Filter matched 25 of 25 items
Apache Tomcat
App Engine Local Ser
App Engine Stand
New_configuratio
Dataflow Pipeline
Eclipse Application
Eclipse Data Tools
Generic Server
Generic Server(Extern
Gradle Task
Gradle Test
Grunt
Gulp
HTTP Preview
J2EE Preview
Java Applet
Java Application
JUnit
JUnit Plug-in Test
Launch Group
Maven Build
Project Explorer
firstapp
Quick Access
Outline
Task List
HelloAppEngine
Markers
Properties
Servers
Data Source Explorer
Snippets
Console
App Engine Standard at localhost
Writable
Smart Insert
24 : 2 : 600
Type here to search
2:22 PM
12/2/2019

Start
Home – FirstAppCC – G
guery and database pics - p
https://console.cloud.google.com/home/dashboard?folder&project=firstappcc-260808&cloudshell=true
Your free trial is waiting: activate now to get $300 credit to explore Google Cloud products. Learn more
DISMISS
ACTIVATE
Google Cloud Platform
FirstAppCC
Home
Pins appear here
Marketplace
Billing
APIs & Services
Support
IAM & admin
Getting started
Security
COMPUTE
App Engine
Compute Engine
Kubernetes Engine
Cloud Functions
Cloud Run
Select a project
NEW PROJECT
Search projects and folders
RECENT
ALL
Name
ID
FirstAppCC
firstappcc-260808
pcacs timetable tt
pcacs-timetable-tt
pcacs
pcacs-9db3b
CANCEL
OPEN
CUSTOMIZE
Google Cloud Platform status
All services normal
Error Reporting
[1] asia-east2 (supports standard and flexible)
[2] asia-northeast1 (supports standard and flexible)
[3] asia-northeast2 (supports standard and flexible)
[4] asia-south1 (supports standard and flexible)
Type here to search
2:23 PM
12/2/2019

Start
Home – FirstAppCC – G
guery and database pics - p
https://console.cloud.google.com/home/dashboard?folder&project=firstappcc-260808&cloudshell=true
Your free trial is waiting: activate now to get $300 credit to explore Google Cloud products. Learn more
DISMISS
ACTIVATE
Google Cloud Platform
FirstAppCC
Home
Pins appear here
Marketplace
Billing
APIs & Services
Support
IAM & admin
Getting started
Security
COMPUTE
App Engine
Compute Engine
Kubernetes Engine
Cloud Functions
Cloud Run
DASHBOARD
ACTIVITY
CUSTOMIZE
Trace
No trace data from the past 7 days
Get started with Stackdriver Trace
Getting Started
Explore and enable APIs
Deploy a prebuilt solution
Add dynamic logging to a running application
Exploring container security: Day one Kubernetes decisions
4 days ago
How Cloud AI is shaping the future of retail—online and in-store
5 days ago
Read all news
Documentation
Learn about Compute Engine
Learn about Cloud Storage
(firstappcc-260808)
[6] europe-west (supports standard and flexible)
[7] europe-west2 (supports standard and flexible)
[8] europe-west3 (supports standard and flexible)
[9] europe-west6 (supports standard and flexible)
[10] northamerica-northeast1 (supports standard and flexible)
[11] southamerica-east1 (supports standard and flexible)
[12] us-central (supports standard and flexible)
[13] us-east1 (supports standard and flexible)
[14] us-east4 (supports standard and flexible)
[15] us-west2 (supports standard and flexible)
[16] cancel
Please enter your numeric choice: 4
Creating App Engine application in project [firstappcc-260808] and region [asia-south1]....done.
Success! The app is now created. Please use `gcloud app deploy` to deploy your first app.
pradgya@cloudshell:~ (firstappcc-260808)$ gcloud cloud create
Type here to search
2:26 PM
12/2/2019

Start
Home – FirstAppCC – G
guery and database pics - p
https://console.cloud.google.com/home/dashboard?folder&project=firstappcc-260808&cloudshell=true
Your free trial is waiting: activate now to get $300 credit to explore Google Cloud products. Learn more
DISMISS
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Explore and enable APIs
Deploy a prebuilt solution
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[11] southamerica-east1 (supports standard and flexible)
[12] us-central (supports standard and flexible)
[13] us-east1 (supports standard and flexible)
[14] us-east4 (supports standard and flexible)
[15] us-west2 (supports standard and flexible)
[16] cancel
Please enter your numeric choice: 4
Creating App Engine application in project [firstappcc-260808] and region [asia-south1]....done.
Type here to search
2:26 PM
12/2/2019

OUTPUT:

Hello App Engine!

Run this link(http://localhost:8080/hello) and see the output of running on server.