MA pracs questions

Q1. Write only the steps for building APT.NET CoreMVC Application.

**Aim:-BuildingAPT.NETCoreMVCApplication**

**Step-1:**

Install.NetCoreSdk(Link:*https://dotnet.microsoft.com/learn/dotnet/hello-world-tutorial/install*)

Step-2:

Createfolder**MyMVC**folderin**D:drive**oranyotherdrive

Step-3:

OpenCommandPromptandtypefollowingcommand

Dotnetnewmvc–authnone

**Step-4:**

Gotocontrollersfolderandmodify***HomeController.cs***filetomatchthefollowing

UsingSystem;

UsingSystem.Collections.Generic;

UsingSystem.Diagnostics;

UsingSystem.Linq;

Using System.Threading.Tasks;

Using Microsoft.AspNetCore.Mvc;

UsingMicrosoft.Extensions.Logging;

UsingMyMVC.Models;

NamespaceMyMVC.Controllers

{

PublicclassHomeController:Controller

{

PublicStringIndex()

{

return"19306A1011AbMisal";

}

}

}

Step-5:

Runtheprojectusing**dotnetrun**command

NowOpenbrowserandtypeURL:**localhost:5000**

Step-6:

NowGobacktocommandpromptandstoprunningprojectusing**CTRL+C**

Step-7:

Gotomodelsfolderandaddnewfile***Student.cs***toitwithfollowingcontent

UsingSystem;

NamespaceMyMVC.Models

{

PublicclassStudent

{

PublicstringName{get;set;}

PublicintRollNo{get;set;}

}

}

Step-8:

Nowgotoviewfolderinitmodify***index.cshtml***filetomatchfollowing

@{

ViewData["Title"]="HomePage";

}

<divclass="text-center">

<h1class="display-4">Welcome</h1>Student Name: @Model.Name <br/>StudentRollNo:@Model.RollNo<br/>

</div>

Step-9:

Nowmodify***HomeController.cs***filetomatchfollowing:

usingSystem;

usingSystem.Collections.Generic;usingSystem.Diagnostics;

usingSystem.Linq;

using System.Threading.Tasks;using Microsoft.AspNetCore.Mvc;usingMicrosoft.Extensions.Logging;usingMyMVC.Models;

namespaceMyMVC.Controllers

{

publicclassHomeController:Controller

{

publicasyncTask<IActionResult>Index()

{

varmodel=newStudent{Name="AbMisal",RollNo='11'};returnView(model);

}

}

}

Step-10

NowRuntheprojectusing**dotnetrun**command

Q2. Write the steps of docker installation

1. Double-click **Docker Desktop Installer.exe** to run the installer.
2. When prompted, ensure the **Use WSL 2 instead of Hyper-V** option on the Configuration page is selected or not depending on your choice of backend.

If your system only supports one of the two options, you will not be able to select which backend to use.

1. Follow the instructions on the installation wizard to authorize the installer and proceed with the install.
2. When the installation is successful, select **Close** to complete the installation process.
3. If your admin account is different to your user account, you must add the user to the **docker-users** group. Run **Computer Management** as an **administrator** and navigate to **Local Users and Groups** > **Groups** > **docker-users**. Right-click to add the user to the group. Sign out and sign back in for the changes to take effect.

Q3. Write any 5 commands of dockers

Check docker version docker –version  
• Pull readymade image from docker  
docker pull rocket/verse  
• To check images in docker docker images  
• To login to your docker  
docker login –username=<username>  
• To tag image  
docker tag <IMAGE ID> <USERNAME/REPONAME:TAG>  
• To push image to docker hub  
docker push <USERNAME/REPONAME:TAG>  
• To build docker image from file  
docker build -t <USERNAME/REPONAME:TAG>  
• To run docker image  
docker run <USERNAME/REPONAME:TAG>  
• To display list of running  
docker container ls –all