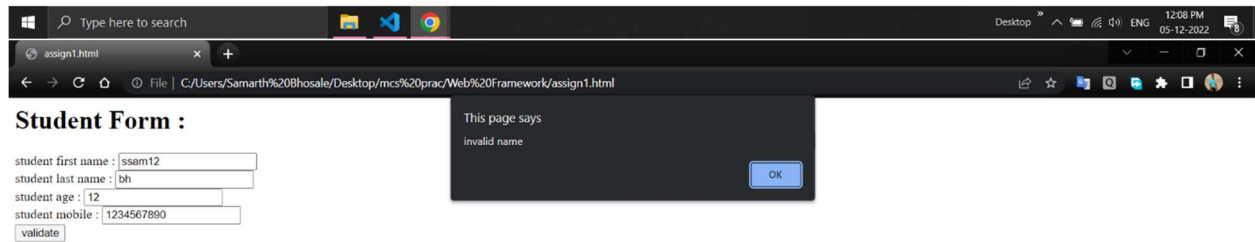
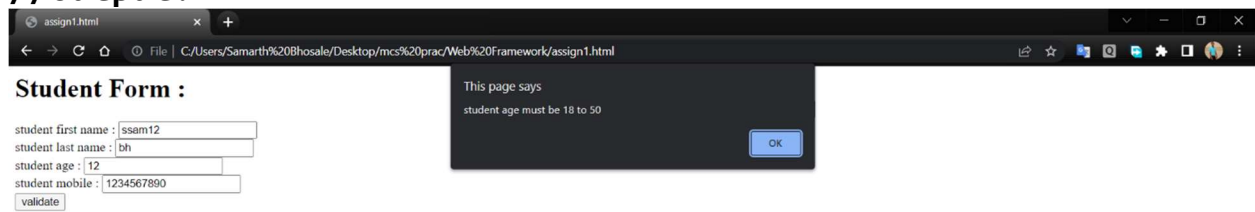


1. Create an HTML form that contain the Student Registration details and write a JavaScript to validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50.

```
<html>
<head>
  <script type="text/javascript">
    function validateStudent(){
      var regName = /^[a-zA-Z]+[a-zA-Z]+$/;
      var fname = document.getElementById('fsname').value;
      var lname = document.getElementById('lsname').value;
      var age = document.getElementById('age').value;
      var phone = document.getElementById('phone').value;

      if(age<18 || age>50)
        alert("student age must be 18 to 50");
      if(!regName.test(fname))
        alert("invalid name");
      if(!regName.test(lname))
        alert("invalid name");
    }
  </script>
</head>
<body>
  <form>
    <h1>Student Form :</h1>
    student first name :
    <input type="text" name="fsname" id="fsname"><br>
    student last name :
    <input type="text" name="lname" id="lsname"><br>
    student age :
    <input type="text" name="age" id="age"><br>
    student mobile :
    <input type="text" name="phone" id="phone"><br>
    <input type="button" value="validate"
onclick="validateStudent()">
  </form>
</body>
</html>
```

//Output:



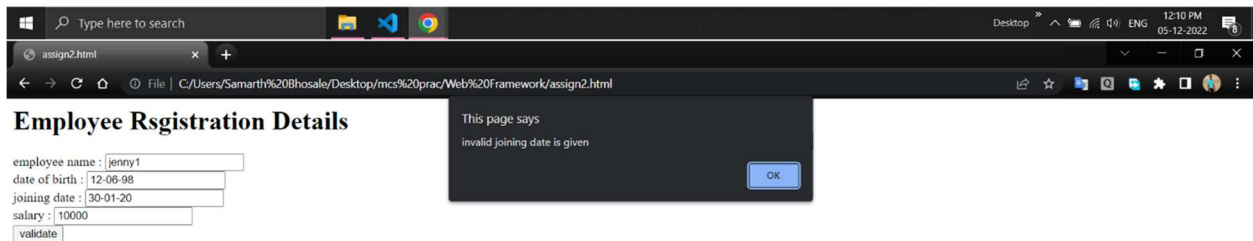
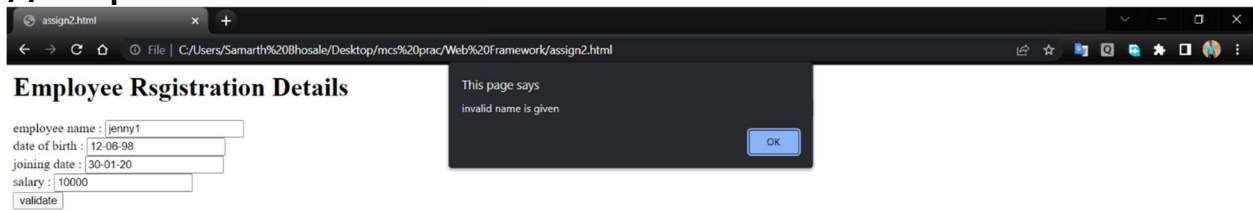
2. Create an HTML form that contain the Employee Registration details and write a JavaScript to validate DOB, Joining Date, and Salary.

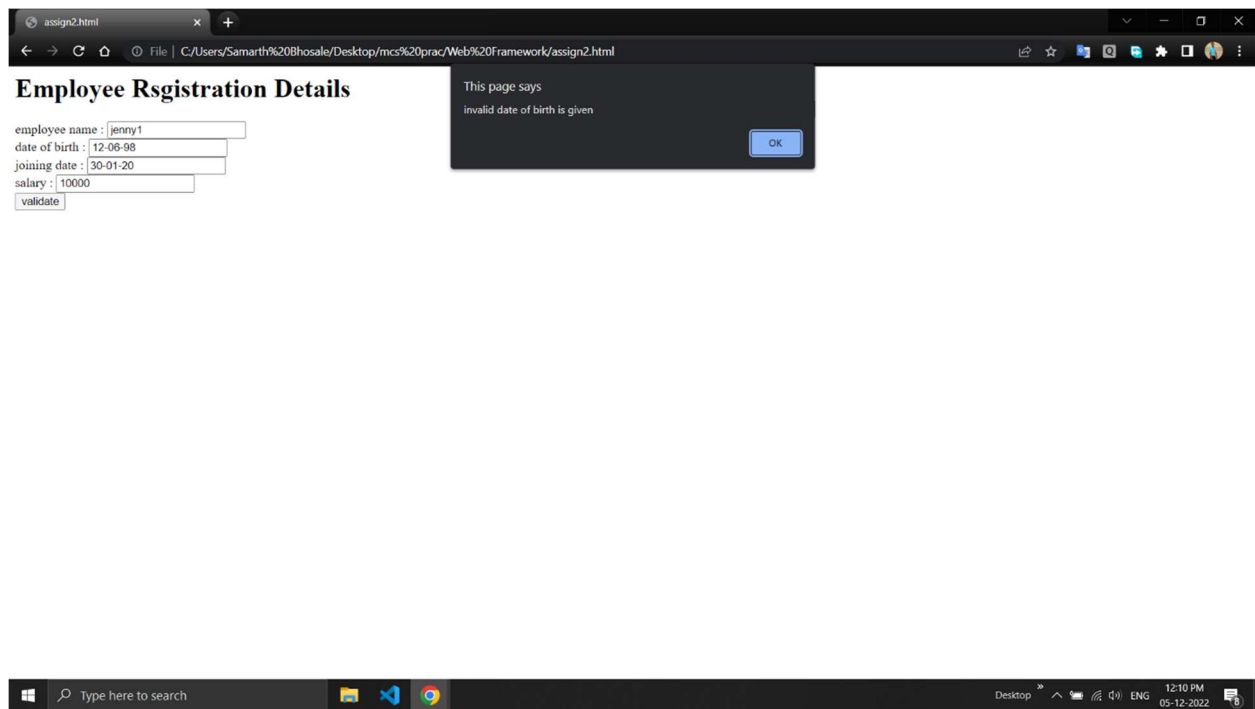
```
<html>
  <head>
    <script type="text/javascript">
      function validate(){
        var regName=/^[a-zA-z]+[a-zA-Z]+$/;
        var dateformatdob = /^(0?[1-9]|[12][0-9]|3[01])(\//\-
](0?[1-9]|1[012])(\//\-)\d{4}$/;
        var dateformatjdate = /^(0?[1-9]|[12][0-9]|3[01])(\//\-
](0?[1-9]|1[012])(\//\-)\d{4}$/;
        var salaryformat=/^\d{1,6}(?:\.\d{0,2})?$/
        var name=document.getElementById("name").value;
        var dob=document.getElementById("dob").value;
        var jdate=document.getElementById("jdate").value;
        var salary=document.getElementById("salary").value;

        if(!regName.test(name))
          alert("invalid name is given");
        if(!dateformatjdate.test(jdate))
          alert("invalid joining date is given");
        if(!dateformatdob.test(dob))
          alert("invalid date of birth is given");
        if(!salaryformat.test(salary))
          alert("invalid salary");
      }
    </script>
  </head>
  <body>
    <form>
      <h1>Employee Rsgistration Details</h1>
      employee name :
      <input type="text" name="fname" id="name"><br>
      date of birth :
      <input type="text" name="dob" id="dob"><br>
      joining date :
      <input type="text" name="jdate" id="jdate"><br>
      salary :
      <input type="text" name="salary" id="salary"><br>
      <input type="button" value="validate"
onclick="validate()">
    </form>
  </body>
```

</html>

//Output:



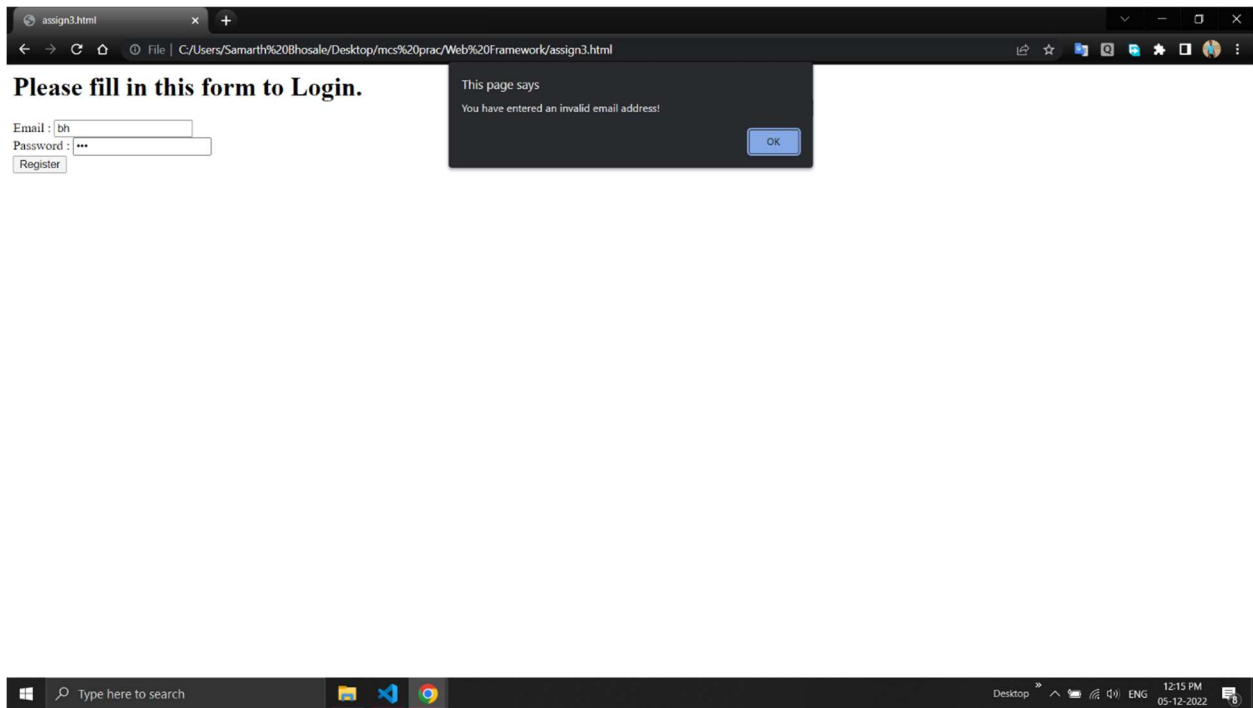


3. Create an HTML form for Login and write a JavaScript to validate email ID using Regular Expression.

```
<html>
<head>
  <script>
    function validateform(){
      var email = document.getElementById("email").value;
      var password = document.getElementById("psw").value;
      if (!(/^\w+([\.-]?\w+)*@\w+([\.-]
]?\w+)*(\.\w{2,3})+$/).test(email)))
        alert("You have entered an invalid email address!");
    }
  </script>
</head>
<body>
  <form name="myform" onsubmit="return validateform()">
    <h1>Please fill in this form to Login.</h1>

    Email :
    <input type="text" autocomplete="off" placeholder="Enter Email"
name="email" id="email" required><br>
    Password :
    <input type="password" autocomplete="off" placeholder="Enter
Password" name="psw" id="psw" required><br>
    <button type="submit" class="registerbtn">Register</button>
  </form>
</body>
</html>
```

//Output:



4. Create a Node.js file that will convert the output "Hello World!" Into upper-case letters.

```
var http = require('http');
var uc = require('upper-case');
http.createServer(function (req, res){
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write(uc.upperCase("hello world..!!!"));
    res.end();
}).listen(8080);
```

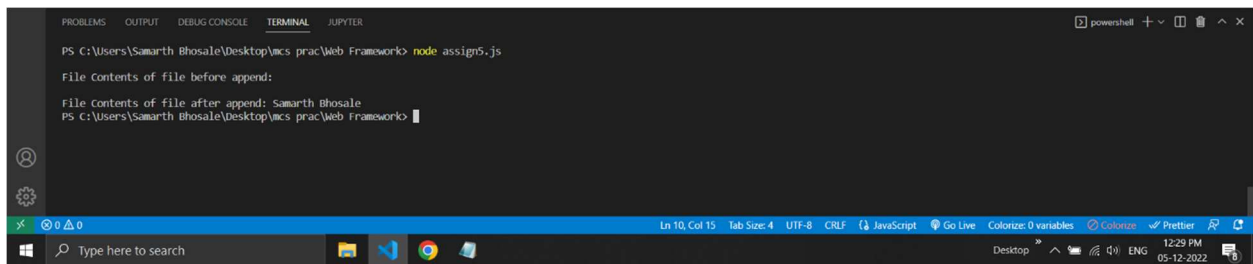
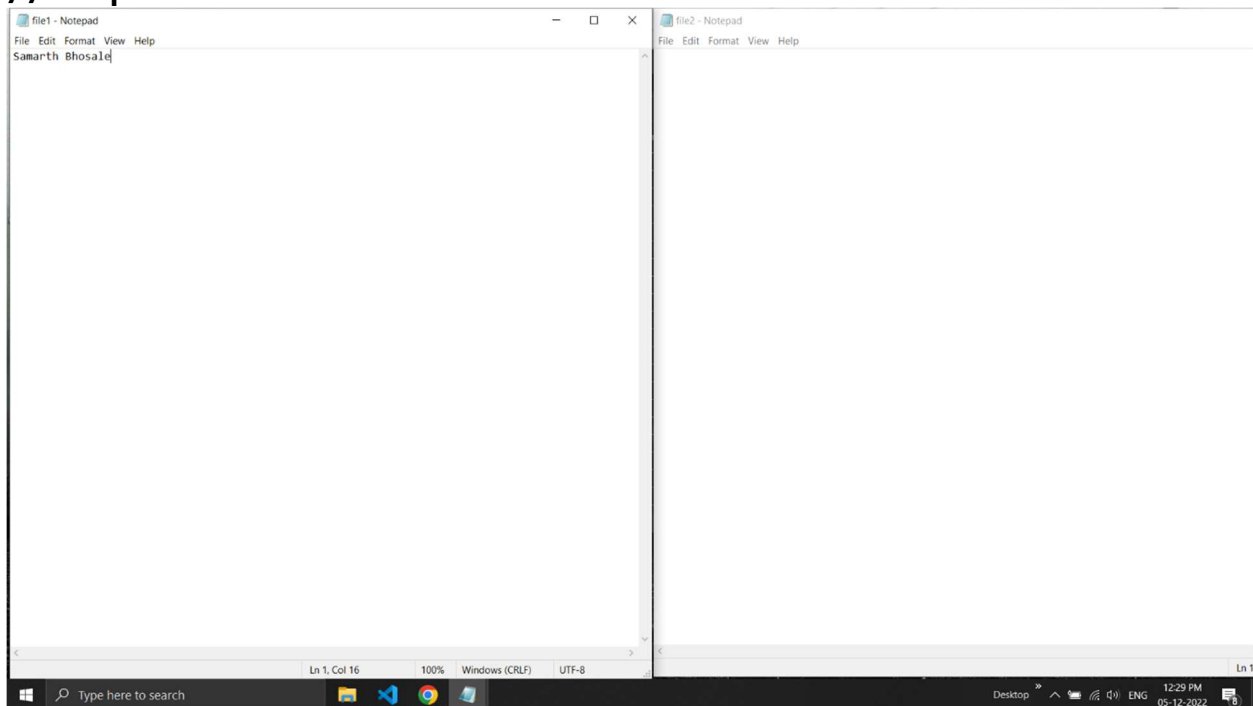
//Output:

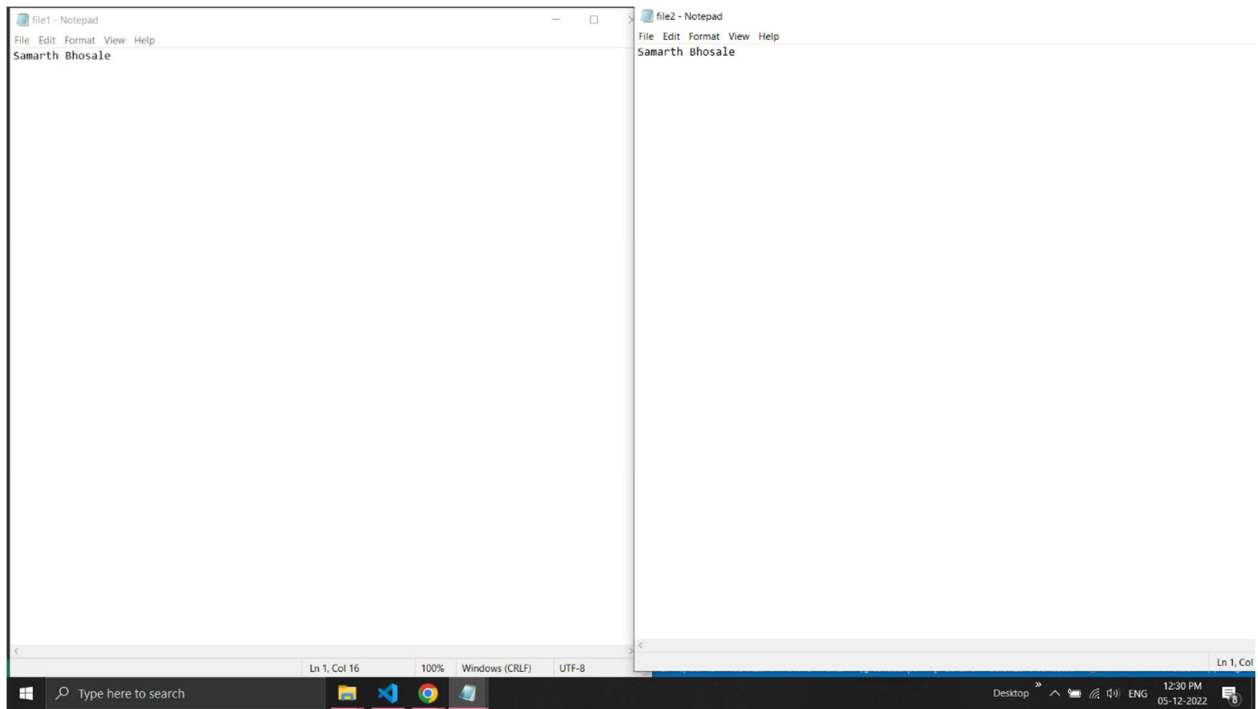


5. Using Node.js create a web page to read two file names from user and append contents of first file into second file.

```
var fs = require('fs');
console.log("\nFile Contents of file before append:");
var a = fs.readFileSync("file1.txt", "utf8");
fs.appendFile("file2.txt", a, function(err){
    if (err)
        console.log(err);
    else {
        console.log("\nFile Contents of file after append:",
            fs.readFileSync("file2.txt", "utf8"));
    }
});
```

//Output:





6. Create a Node.js file that opens the requested file and returns the content to the client. If anything goes wrong, throw a 404 error.

```
var http = require('http');
var url = require('url');
var fs = require('fs');

http.createServer(function (req, res) {
  var q = url.parse(req.url, true);
  var filename = "." + q.pathname;

  fs.readFile(filename, function(err, data) {
    if (err) {
      res.writeHead(404, {'Content-Type': 'text/html'});
      return res.end("404 Not Found");
    }
    res.writeHead(200, {'Content-Type': 'text/html'});
    res.write(data);
    return res.end();
  });
}).listen(8080);
```

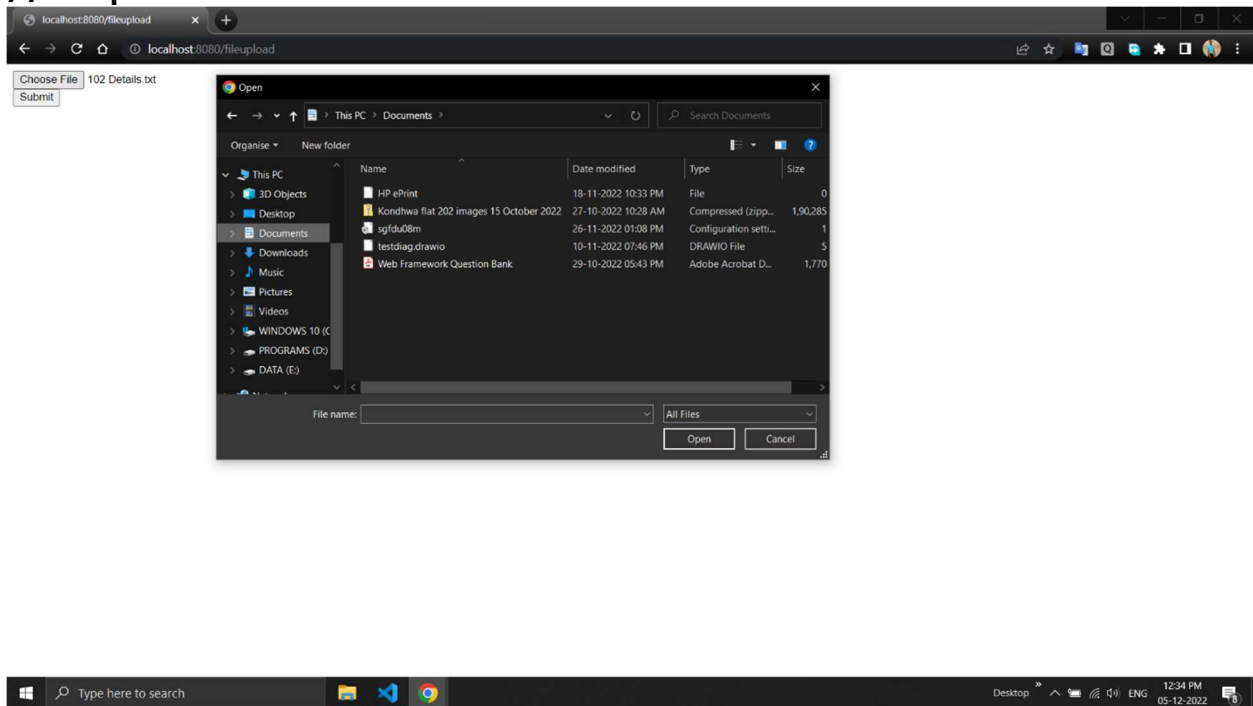
//Output:



7. Create a Node.js file that writes an HTML form, with an upload field.

```
var http = require('http');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.write('<form action="fileupload" method="post"
  enctype="multipart/form-data">');
  res.write('<input type="file" name="filetoupload"><br>');
  res.write('<input type="submit">');
  res.write('</form>');
  return res.end();
}).listen(8080);
```

//Output:



8. Create a Node.js file that demonstrate create database and table in MySQL.

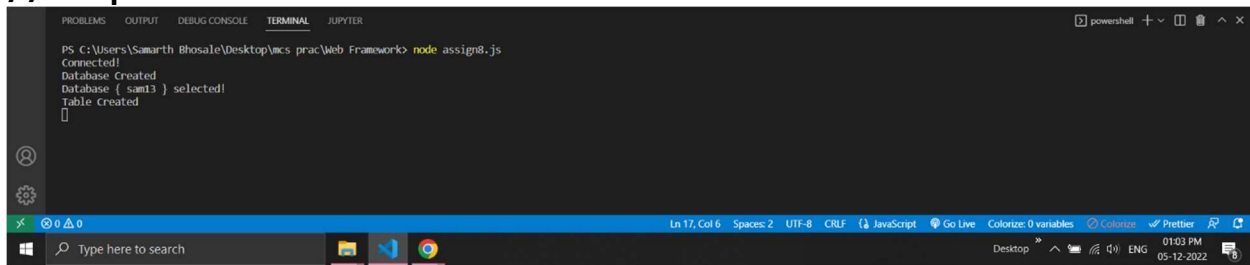
```
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "sam"
});

con.connect(function(err) {
  if (err) throw err;
  else
    console.log("Connected!");
  con.query("create database sam13", function (err, result) {
    if (err)
      console.log(err);
    console.log("Database Created");
  });
});

con.query("use sam13",function(err){
  if(err)
    console.log(err);
  else
    console.log("Database { "+"sam13 } selected!");
});

var sql = "create table customer1(name varchar(10), address
varchar(10))";
con.query(sql, function (err, result) {
  if (err)
    console.log(err);
  else
    console.log("Table Created");
});
```

//Output:



The screenshot shows a Visual Studio Code (VS Code) terminal window. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and JUPYTER. The TERMINAL tab is active, showing a PowerShell prompt. The command executed is `PS C:\Users\Samarth Bhosale\Desktop\mcs prac\Web Framework> node assign8.js`. The output of the script is as follows:

```
Connected!  
Database Created  
Database { sam13 } selected!  
Table Created  
[]
```

The terminal window also shows a status bar at the bottom with various icons and information, including the file path `Ln 17, Col 6`, encoding `UTF-8`, and language `JavaScript`. The Windows taskbar is visible at the bottom of the screen.

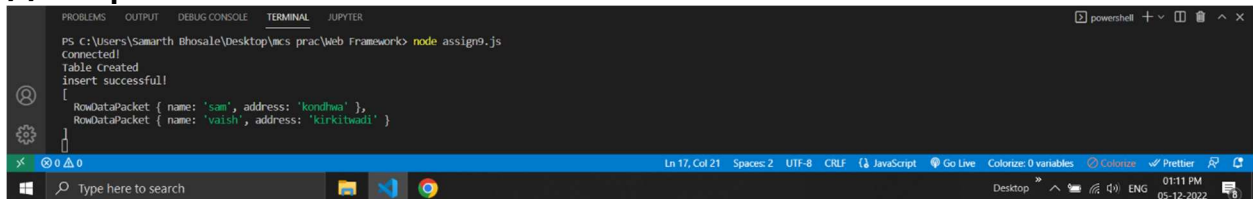
9. Create a node.js file that Select all records from the "customers" table, and display the result object on console.

```
var mysql = require('mysql');
var con = mysql.createConnection({
  host: 'localhost',
  user: "root",
  password: "",
  database: 'sam'
});

con.connect(function(err) {
  if (err) throw err;
  else
    console.log("Connected!");
});

con.query('select * from customer1', function(err,rows){
  if(err) throw err;
  else
    console.log(rows);
});
```

//Output:



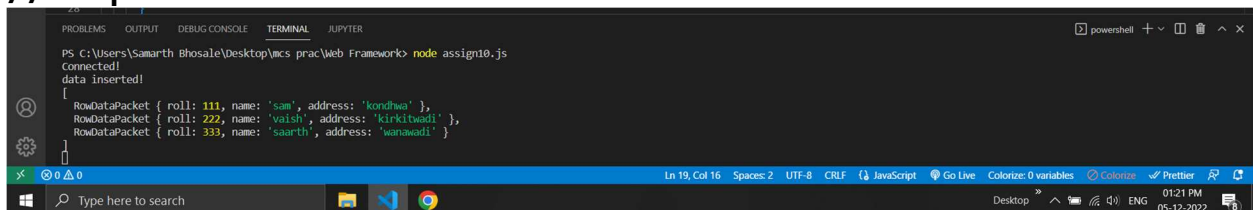
```
PS C:\Users\Samarth Bhosale\Desktop\acs prac\Web Framework> node assign9.js
Connected!
Table created
Insert successful
[
  RowDataPacket { name: 'sam', address: 'kondhwa' },
  RowDataPacket { name: 'vaish', address: 'kirkitwadi' }
]
```

10. Create a node.js file that Insert Multiple Records in "student" table and display the result object on console.

```
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "sam"
});
con.connect(function(err) {
  if (err) throw err;
  else{
    console.log("Connected!");

    con.query("create table students1(roll int primary key, name text,
address text)",function(err){
      if(err) throw err;
      else{
        con.query("insert into students1
values(111,'sam','kondhwa'),(222,'vaish','kirkitwadi'),(333,'saarth','
wanawadi')",function(err){
          if(err) throw err;
          else{
            console.log("data inserted!");
            con.query("select * from students", function (err, result)
{
              if (err) throw err;
              else
                console.log(result);
            });
          }
        });
      }
    });
  }
});
```

//Output:



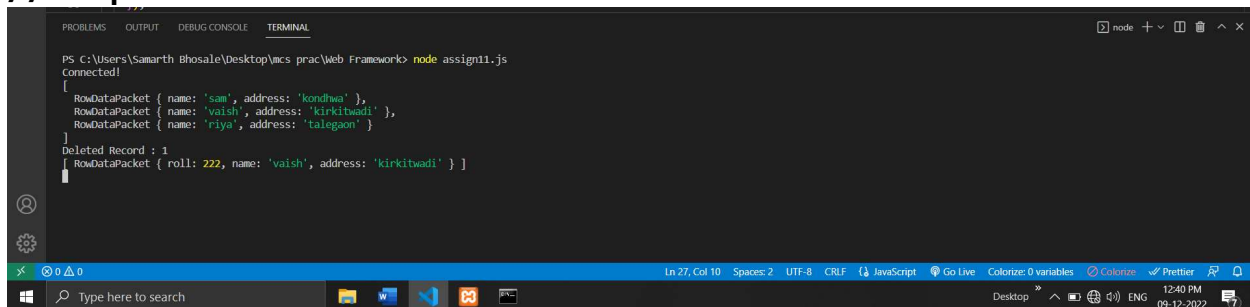
```
PS C:\Users\Samarth Bhosale\Desktop\mcs prac\Web Framework> node assign10.js
Connected!
data inserted!
[
  RowDataPacket { roll: 111, name: 'sam', address: 'kondhwa' },
  RowDataPacket { roll: 222, name: 'vaish', address: 'kirkitwadi' },
  RowDataPacket { roll: 333, name: 'saarth', address: 'wanawadi' }
]
```


11. Create a node.js file that Select all records from the "customers" table, and delete the specified record.

```
var mysql = require('mysql');
var con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "",
  database: "sam"
});

con.connect(function(err) {
  if (err) throw err;
  else{
    console.log("Connected!");
    con.query("select * from customer1", function (err, result) {
      if (err) throw err;
      else{
        console.log(result);
        con.query("delete from customer1 where name = 'riya'", function (err,
result){
          if (err) throw err;
          else{
            console.log("Deleted Record : " + result.affectedRows);
            con.query("select * from students1", function (err, result) {
              if (err) throw err;
              else
                console.log(result);
            });
          }
        });
      }
    });
  }
});
});
```

//Output:



```
PS C:\Users\Samarth Bhosale\Desktop\mcs prac\Web Frameworks> node assign11.js
connected!
[
  RowDataPacket { name: 'sam', address: 'kondhwa' },
  RowDataPacket { name: 'vaish', address: 'kirkitwadi' },
  RowDataPacket { name: 'riya', address: 'talegaon' }
]
Deleted Record : 1
[ RowDataPacket { roll: 222, name: 'vaish', address: 'kirkitwadi' } ]
```

12. Create a Simple Web Server using node js.

```
var http = require('http');
var server = http.createServer(function (req, res) {
  res.write("<h1>Server Created!</h1>");
});
server.listen(8080);
```

//Output:



Server Created!



13. Using node js create a User Login System.

html-

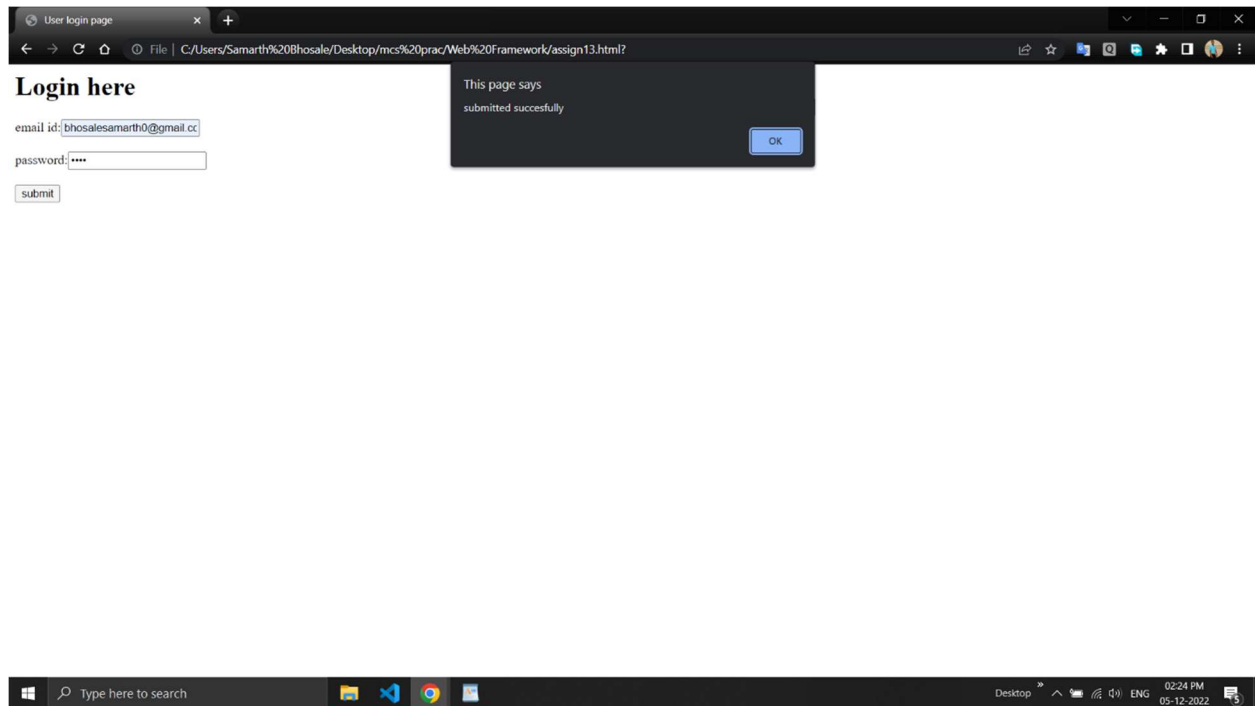
```
<html>
<head>
<title>User login page</title>
<head>
  <script>
    function f(){
      var validRegex = /^[a-zA-Z0-9.!#$%&'+=/?^_`{|}~-]+@[a-
zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)$/;
      var email=document.getElementById("email").value;
      if(!validRegex.test(email))
        alert("Invalid Email!");
      else
        alert("submitted succesfully");
      return false;
    }
  </script>
</head>
<body>
  <form name="login" onsubmit="f()">
    <h1>Login here</h1>
    email id:<input type="text" id="email"/><br><br>
    password:<input type="password" id="password"><br><br>
    <input type="submit" id="submit" value="submit">
  </form>
</body>
</html>
```

javascript-

```
var http=require('http');
http.createServer(function(req,resp){
  var fs=require("fs");
  resp.writeHead(200,{ 'content-type': 'text/html' });
  var content= fs.readFileSync("login.html");
  if(content){
    resp.write(content);
  }
  else{
    resp.write("404 error");
  }

  resp.end();
}).listen(6006);
```

//Output:



14. Using node js create an eLearning System.

html -

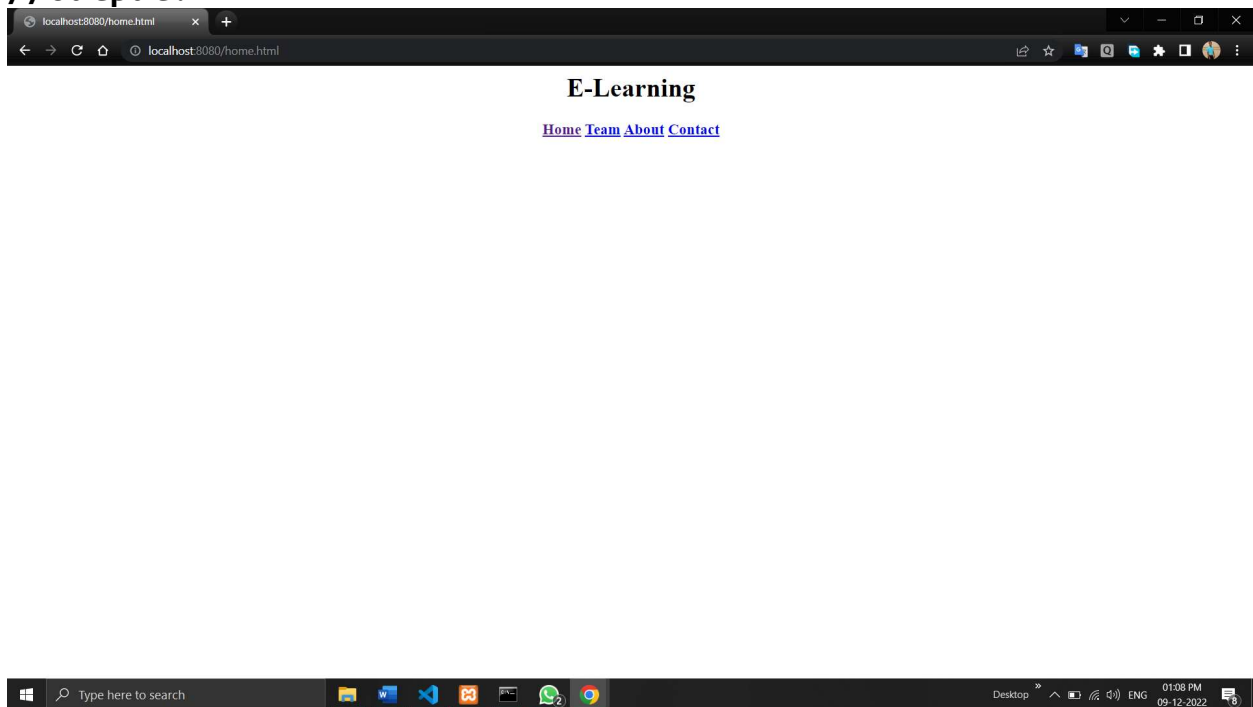
```
<html>
<head>
</head>
<body>
  <center>
    <h1>E-Learning</h1>

    <h3>
      <a href = "home.html">Home</a>
      <a href = "team.html">Team</a>
      <a href = "about.html">About</a>
      <a href = "contact.html">Contact</a>
    </h3>
  </center>
</body>
</html>
```

javascript -

```
var fs=require("fs");
var http = require('http');
http.createServer(function(req,resp){
  resp.writeHead(200,{"content-type":"text/html"});
  var content=fs.readFileSync("elearningnew.html");
  if(content)
    resp.write(content);
  else
    resp.write("404 error");
  resp.end()
}).listen(8080);
```

//Output:



15. Using node js create a Recipe Book.

html -

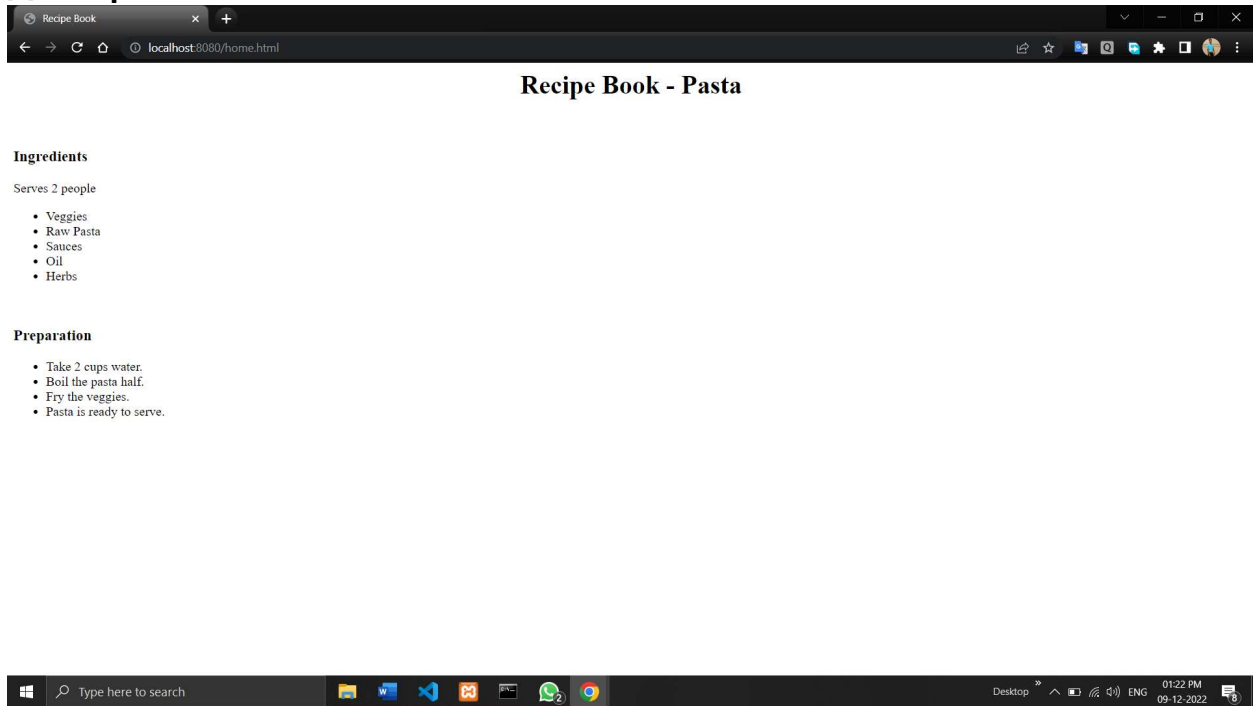
```
<html>
<head>
  <title>Recipe Book</title>
</head>
<body>
  <center>
    <h1>Recipe Book - Pasta</h1><br>
  </center>
  <h3>Ingredients</h3>
  <p>Serves 2 people</p>
  <ul>
    <li>Veggies</li>
    <li>Raw Pasta</li>
    <li>Sauces</li>
    <li>Oil</li>
    <li>Herbs</li>
  </ul>
  <br>
  <h3>Preparation</h3>
  <ul>
    <li>Take 2 cups water.</li>
    <li>Boil the pasta half.</li>
    <li>Fry the veggies.</li>
    <li>Pasta is ready to serve.</li>
  </ul>

</body>
</html>
```

Javascript -

```
var fs=require("fs");
var http = require('http');
http.createServer(function(req,resp){
  resp.writeHead(200,{"content-type":"text/html"});
  var content=fs.readFileSync("recipenew.html");
  if(content)
    resp.write(content);
  else
    resp.write("404 error");
  resp.end()
}).listen(8080);
```

//Output:



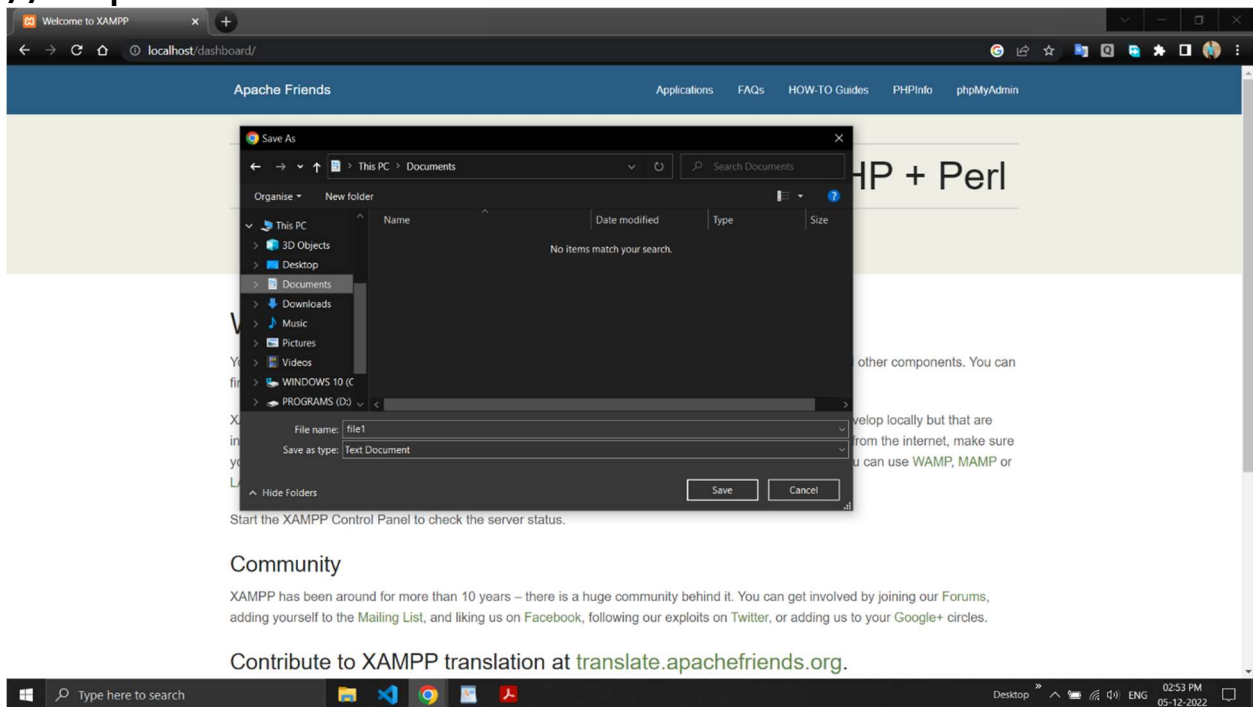
16. Write node js script to interact with the filesystem, and serve a web page from a file.

```
var express = require('express');
var app = express();
var PORT = 3000;

app.get('/', function(req, res){
  res.download('hello.txt');
});

app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```

//Output:



17. Write node js script to build Your Own Node.js Module. Use require ('http') module is a built-in Node module that invokes the functionality of the HTTP library to create a local server. Also use the export statement to make functions in your module available externally. Create a new text file to contain the functions in your module called, "modules.js" and add this function to return today's date and time.

Modules.js -

```
module.exports.dt= new Date();
```

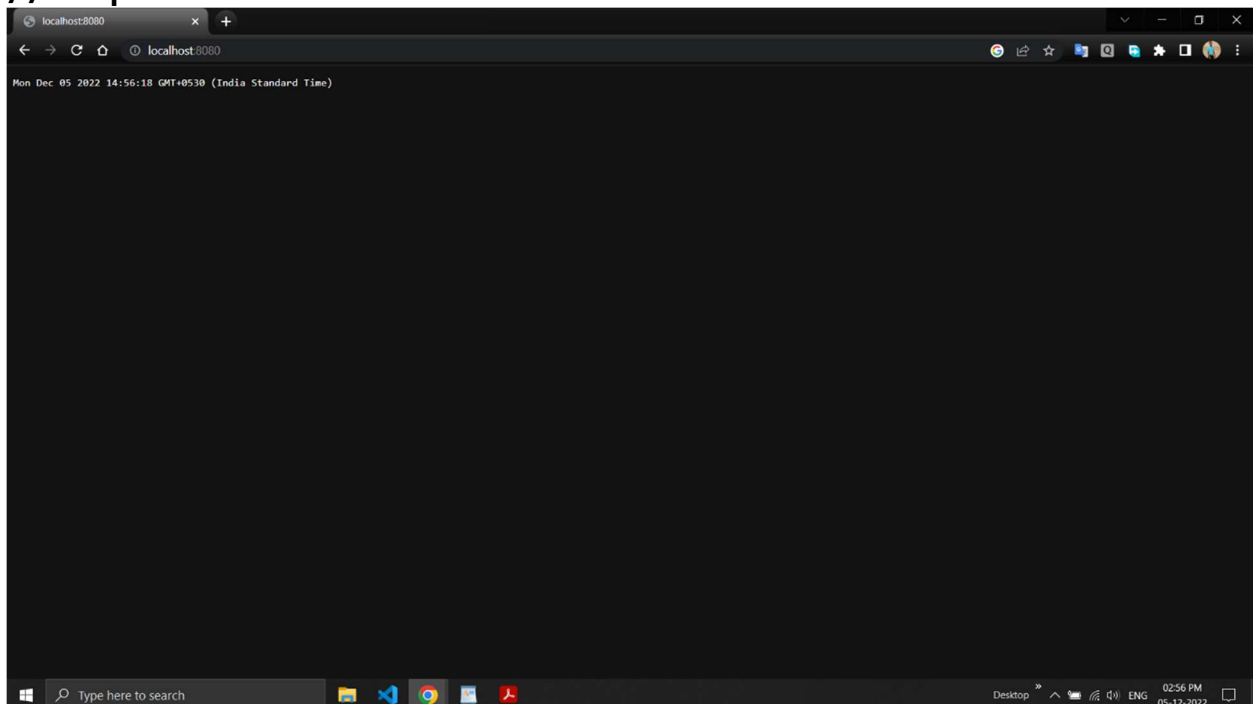
date.js -

```
var http = require('http');
```

```
var dt = require('./Modules');
```

```
http.createServer(function (req, res) {  
  res.writeHead(200, {'Content-Type': 'text/html'});  
  res.write("The date and time are currently: " + dt.myDateTime());  
  res.end();  
}).listen(8080);
```

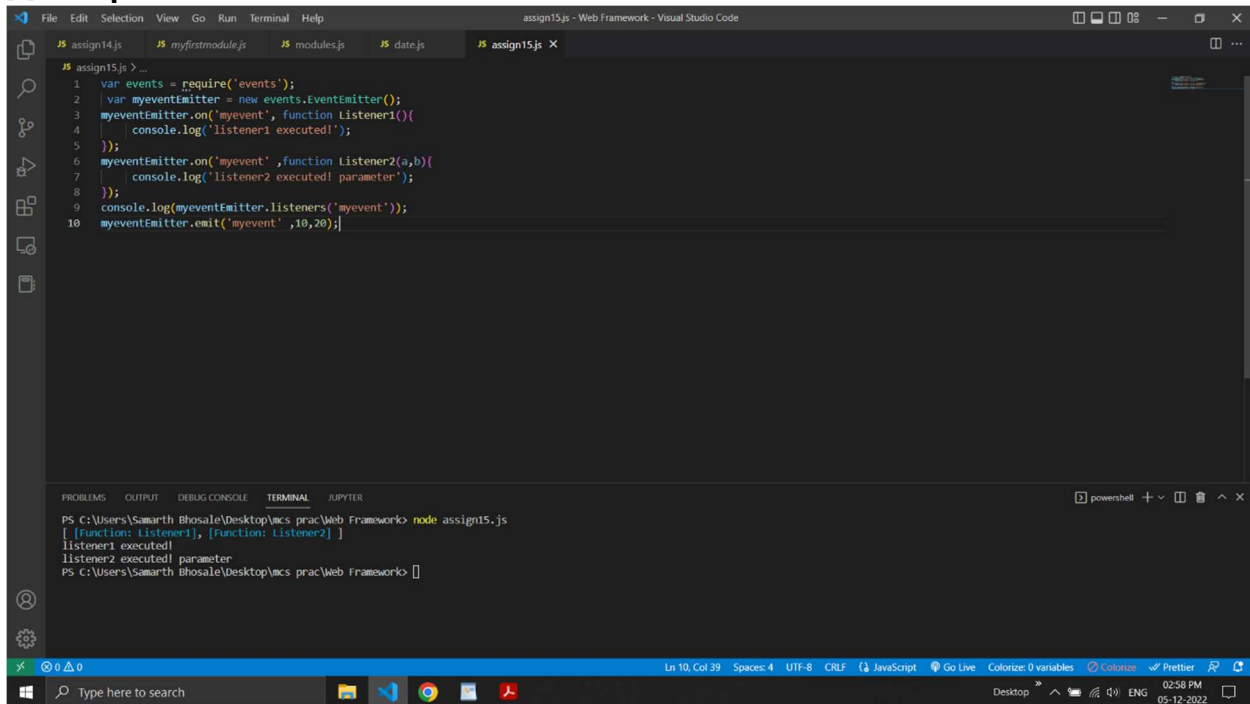
//Output:



18. Create a js file named main.js for event-driven application. There should be a main loop that listens for events, and then triggers a callback function when one of those events is detected.

```
var events = require('events');
var myeventEmitter = new events.EventEmitter();
myeventEmitter.on('myevent', function Listener1(){
    console.log('listener1 executed!');
});
myeventEmitter.on('myevent' ,function Listener2(a,b){
    console.log('listener2 executed! parameter');
});
console.log(myeventEmitter.listeners('myevent'));
myeventEmitter.emit('myevent' ,10,20);
```

//Output:



```
1 var events = require('events');
2 var myeventEmitter = new events.EventEmitter();
3 myeventEmitter.on('myevent', function Listener1(){
4     console.log('listener1 executed!');
5 });
6 myeventEmitter.on('myevent' ,function Listener2(a,b){
7     console.log('listener2 executed! parameter');
8 });
9 console.log(myeventEmitter.listeners('myevent'));
10 myeventEmitter.emit('myevent' ,10,20);
```

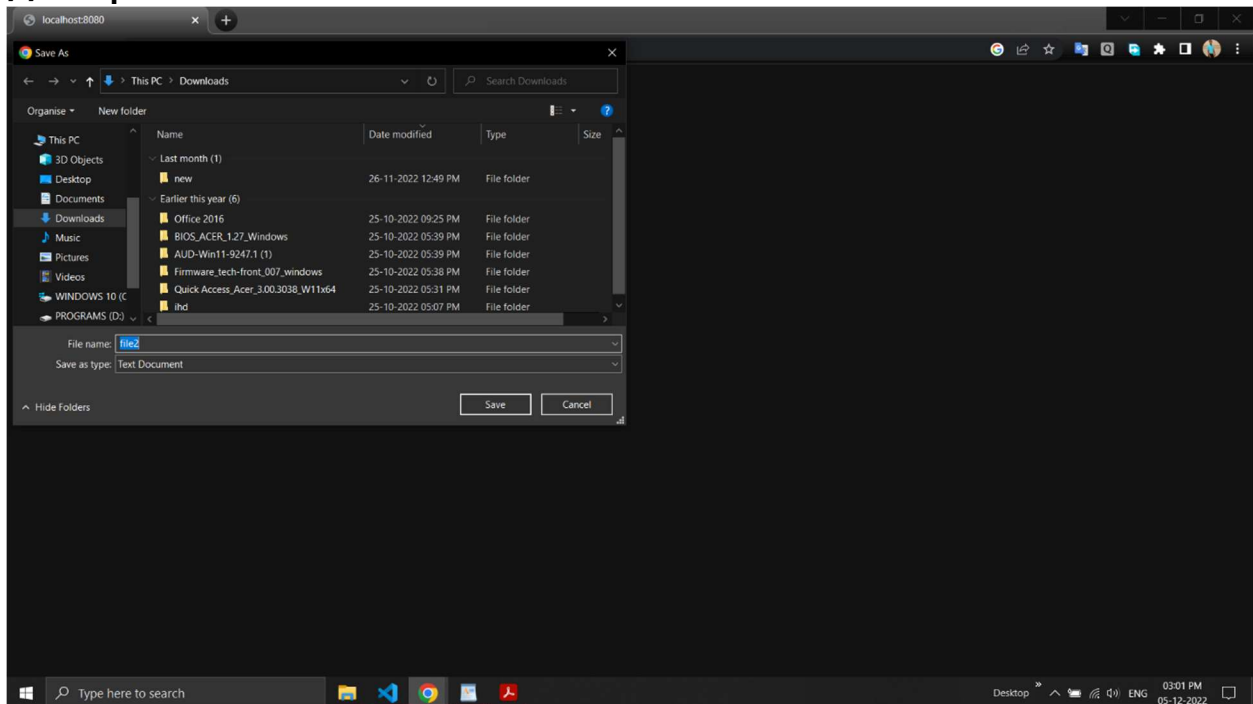
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
PS C:\Users\Samarth Bhosale\Desktop\mcs prac\Web Framework> node assign15.js
[Function: Listener1], [Function: Listener2]
listener1 executed!
listener2 executed! parameter
PS C:\Users\Samarth Bhosale\Desktop\mcs prac\Web Framework>
```

19. Write node js application that transfer a file as an attachment on web and enables browser to prompt the user to download file using express js.

```
var express = require("express");
var app = express();
app.get('/a/',function(req,res){
    res.download('file2.txt');
});
app.listen(8051,function(err){
    if(err)
        console.log(err);
    console.log("Server is listening..");
});
```

//Output:



20. Create your Django app in which after running the server, you should see on the browser, the text “Hello! I am learning Django”, which you defined in the index view.

Views.py -

```
# -*- coding: utf-8 -*-
from __future__ import unicode_literals
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def index(req):
    return render(req, "m.html")
```

urls.py -

```
"""myproj URL Configuration
The `urlpatterns` list routes URLs to views. For more information
please see:
    https://docs.djangoproject.com/en/1.11/topics/http/urls/
Examples:
Function views
    1. Add an import:  from my_app import views
    2. Add a URL to urlpatterns:  url(r'^$', views.home, name='home')
Class-based views
    1. Add an import:  from other_app.views import Home
    2. Add a URL to urlpatterns:  url(r'^$', Home.as_view(),
name='home')
Including another URLconf
    1. Import the include() function: from django.conf.urls import
url, include
    2. Add a URL to urlpatterns:  url(r'^blog/', include('blog.urls'))
"""
from django.conf.urls import url
from django.contrib import admin

from myapp1.views import index
urlpatterns = [
    url(r'^admin/', admin.site.urls),
    url("/", index),
]
m.html -
<html>
<body>
<b>Hello I am Learning Django</b>
</body>
</html>
```

//Output -



Hello I am Learning Django!!!!



21.Design a Django application that adds web pages with views and templates.

views.py -

```
from django.shortcuts import render
from django.http import HttpResponse
```

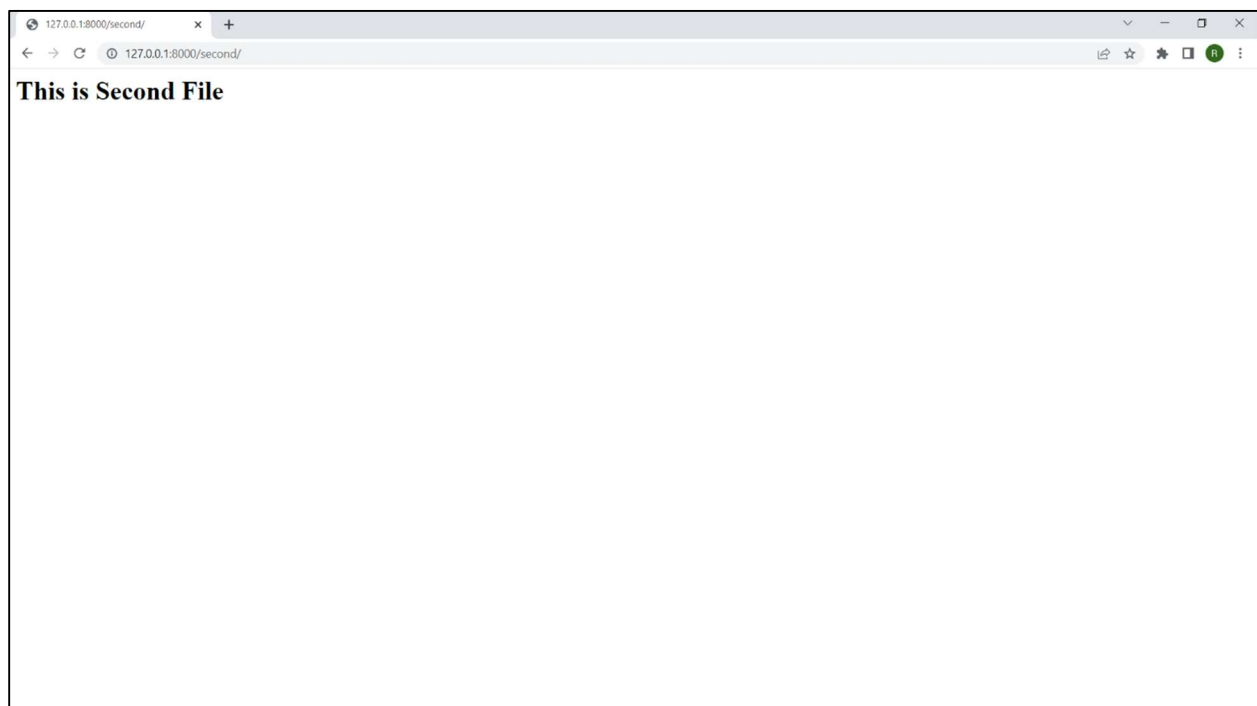
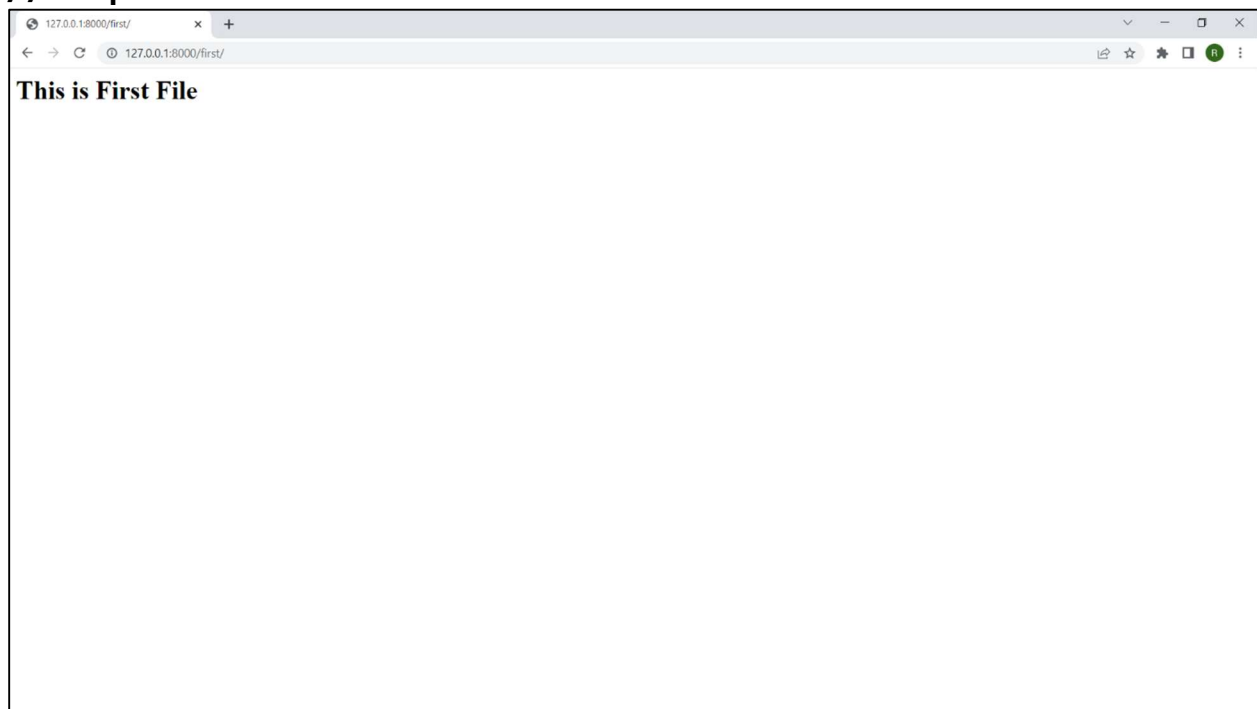
```
def f1(req):
    return render(req,"a.html")
def f2(req):
    return render(req,"b.html")
def f3(req):
    return render(req,"c.html")
```

urls.py -

```
from django.contrib import admin
from django.urls import path
from views.views import f1
from views.views import f2
from views.views import f3
```

```
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('first/', f1),  
    path('second/', f2),  
    path('third/', f3),  
]
```

//Output-



22. Develop a basic poll application (app). It should consist of two parts: a) A public site in which user can pick their favourite programming language and vote. b) An admin site that lets you add, change and delete programming languages.

models.py -

```
from django.db import models
```

```
class Question(models.Model):
```

```
    question_text = models.CharField(max_length = 200)
```

```
    pub_date = models.DateTimeField('date published')
```

```
    def __str__(self):
```

```
        return self.question_text
```

```
class Choice(models.Model):
```

```
    question = models.ForeignKey(Question, on_delete = models.CASCADE)
```

```
    choice_text = models.CharField(max_length = 200)
```

```
    votes = models.IntegerField(default = 0)
```

```
    def __str__(self):
```

```
        return self.choice_text
```

views.py -

```
from django.template import loader
```

```
from django.http import HttpResponseRedirect
```

```
from django.shortcuts import get_object_or_404, render, Http404
```

```
from django.urls import reverse
```

```
from .models import Question, Choice
```

```
def index(request):
```

```
    latest_question_list = Question.objects.order_by('-pub_date')[:5]
```

```
    context = {'latest_question_list': latest_question_list}
```

```
    return render(request, 'polls/index.html', context)
```

```
# Show specific question and choices
```

```
def detail(request, question_id):
```

```
    try:
```

```
        question = Question.objects.get(pk = question_id)
```

```
    except Question.DoesNotExist:
```

```
        raise Http404("Question does not exist")
```

```
    return render(request, 'polls/detail.html', {'question':
```

```
question})
```

```

# Get question and display results

def results(request, question_id):
    question = get_object_or_404(Question, pk = question_id)
    return render(request, 'polls/results.html', {'question':
question})

# Vote for a question choice

def vote(request, question_id):
    # print(request.POST['choice'])
    question = get_object_or_404(Question, pk = question_id)
    try:
        selected_choice = question.choice_set.get(pk =
request.POST['choice'])
    except (KeyError, Choice.DoesNotExist):
        # Redisplay the question voting form.
        return render(request, 'polls/detail.html', {
            'question': question,
            'error_message': "You didn't select a choice.",
        })
    else:
        selected_choice.votes += 1
        selected_choice.save()
        # Always return an HttpResponseRedirect after successfully
dealing
        # with POST data. This prevents data from being posted twice
if a
        # user hits the Back button.
        return HttpResponseRedirect(reverse('polls:results', args
=(question.id, )))

```

urls.py -

```

from django.contrib import admin
from django.urls import path,include

```

```

urlpatterns = [
    path('polls/', include('polls.urls')),
    path('admin/', admin.site.urls),
]

```

admin.py -

```

from django.contrib import admin
# Register your models here.
from .models import Question, Choice

```

```

# admin.site.register(Question)
# admin.site.register(Choice)

admin.site.site_header = "Pollster Admin"
admin.site.site_title = "Pollster Admin Area"
admin.site.index_title = "Welcome to the Pollster Admin Area"

class ChoiceInline(admin.TabularInline):
    model = Choice
    extra = 3

class QuestionAdmin(admin.ModelAdmin):
    fieldsets = [(None, {'fields': ['question_text']}), ('Date
Information', {
    'fields': ['pub_date'], 'classes': ['collapse']}), ]
    inlines = [ChoiceInline]

admin.site.register(Question, QuestionAdmin)

index.html -
{% block content %}
<h1 class = "text-center mb-3">Poll Questions</h1>
{% if latest_question_list %}
{% for question in latest_question_list %}
<div class = "card-mb-3">
    <div class = "card-body">
        <p class = "lead">{{ question.question_text }}</p>
        <a href = "{% url 'polls:detail' question.id %}" class = "btn
btn-primary btn-sm">Vote Now</a>
    </div>
</div>
{% endfor %}
{% else %}
<p>No polls available</p>
{% endif %}
{% endblock %}

Detail.html -
{% block content %}
<h1 class = "text-center mb-3">{{ question.question_text }}</h1>

{% if error_message %}
<p class = "alert alert-danger">
    <strong>{{ error_message }}</strong>
</p>

```

```

{% endif %}

<form action="{% url 'polls:vote' question.id %}" method="post">
    {% csrf_token %}
    {% for choice in question.choice_set.all %}
    <div class="form-check">
        <input type="radio" name="choice" class="form-check-
input" id="choice{{ forloop.counter }}"
            value="{{ choice.id }}" />
        <label for="choice{{ forloop.counter }}">{{
choice.choice_text }}</label>
    </div>
    {% endfor %}
    <input type="submit" value="Vote" class="btn btn-success btn-
lg btn-block mt-4" />
</form>
{% endblock %}

```

Results.html -

```

{% block content %}
<h2> Vote Submitted Successfully</h2>
{% endblock %}

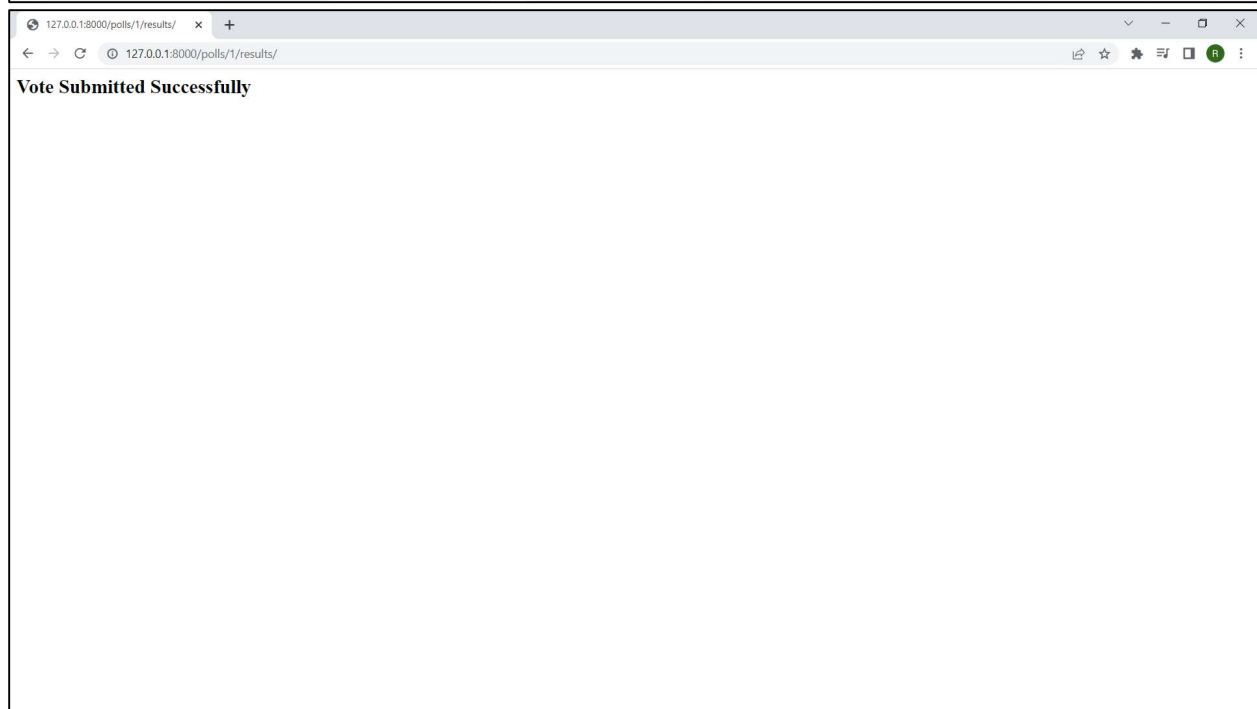
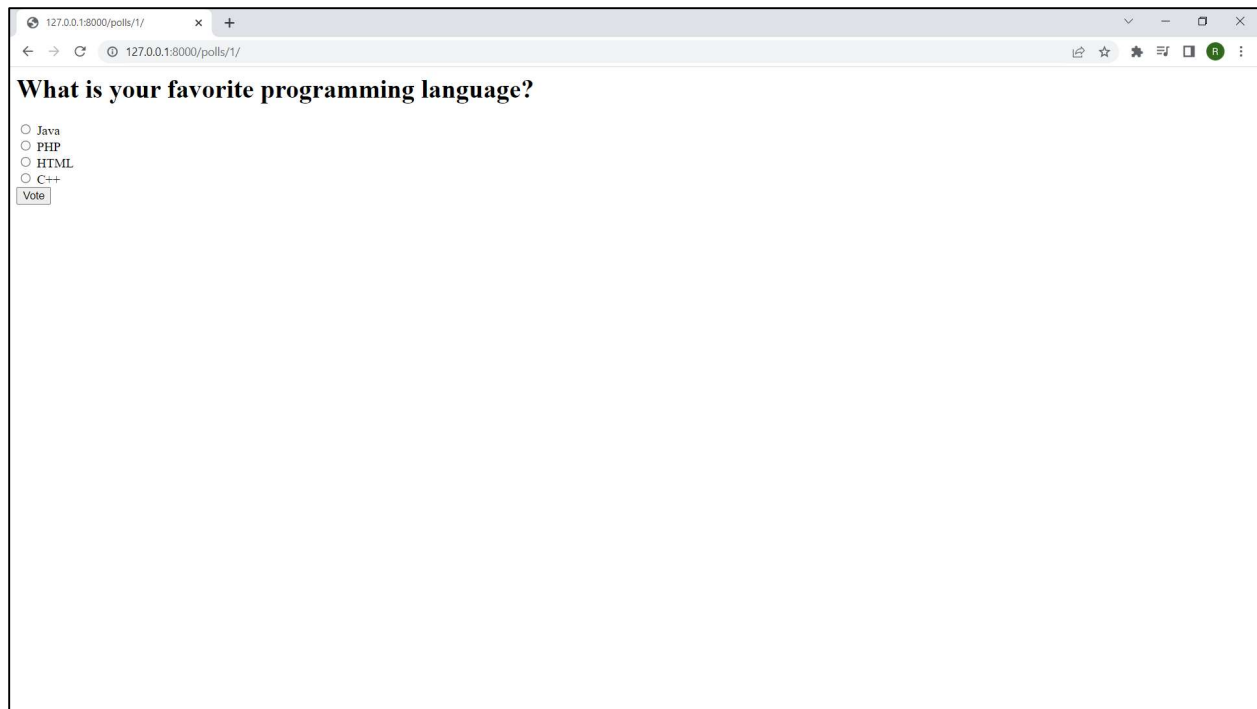
```

//Output-

What is your favorite programming language?

CHOICE TEXT	VOTES	DELETE?
Java	1	<input type="checkbox"/>
PHP	2	<input type="checkbox"/>
HTML	1	<input type="checkbox"/>
C++	1	<input type="checkbox"/>
	0	<input type="checkbox"/>
	0	<input type="checkbox"/>
	0	<input type="checkbox"/>

Buttons: Delete, Save and add another, Save and continue editing, SAVE



23. A public site in which user can pick their favourite programming language and vote.

views.py -

```
from django.template import loader
from django.http import HttpResponse, HttpResponseRedirect
from django.shortcuts import get_object_or_404, render, Http404
from django.urls import reverse
from .models import Question, Choice

def index(request):
    latest_question_list = Question.objects.order_by('-pub_date')[:5]
    context = {'latest_question_list': latest_question_list}
    return render(request, 'polls/index.html', context)

# Show specific question and choices

def detail(request, question_id):
    try:
        question = Question.objects.get(pk = question_id)
    except Question.DoesNotExist:
        raise Http404("Question does not exist")
    return render(request, 'polls/detail.html', {'question':
question})

# Get question and display results

def results(request, question_id):
    question = get_object_or_404(Question, pk = question_id)
    return render(request, 'polls/results.html', {'question':
question})

# Vote for a question choice

def vote(request, question_id):
    # print(request.POST['choice'])
    question = get_object_or_404(Question, pk = question_id)
    try:
        selected_choice = question.choice_set.get(pk =
request.POST['choice'])
    except (KeyError, Choice.DoesNotExist):
        # Redisplay the question voting form.
        return render(request, 'polls/detail.html', {
            'question': question,
            'error_message': "You didn't select a choice.",
```

```

        })
    else:
        selected_choice.votes += 1
        selected_choice.save()
        # Always return an HttpResponseRedirect after successfully
dealing
        # with POST data. This prevents data from being posted twice
if a
        # user hits the Back button.
        return HttpResponseRedirect(reverse('polls:results', args
=(question.id, )))

```

urls.py -

```

from django.contrib import admin
from django.urls import path,include

```

```

urlpatterns = [
    path('polls/', include('polls.urls')),
    path('admin/', admin.site.urls),
]

```

index.html -

```

{% block content %}
<h1 class = "text-center mb-3">Poll Questions</h1>
{% if latest_question_list %}
{% for question in latest_question_list %}
<div class = "card-mb-3">
    <div class = "card-body">
        <p class = "lead">{{ question.question_text }}</p>
        <a href = "{% url 'polls:detail' question.id %}" class = "btn
btn-primary btn-sm">Vote Now</a>
    </div>
</div>
{% endfor %}
{% else %}
<p>No polls available</p>
{% endif %}
{% endblock %}

```

Detail.html -

```

{% block content %}
<h1 class = "text-center mb-3">{{ question.question_text }}</h1>

{% if error_message %}
<p class = "alert alert-danger">
    <strong>{{ error_message }}</strong>
</p>

```

```

{% endif %}

<form action="{% url 'polls:vote' question.id %}" method="post">
    {% csrf_token %}
    {% for choice in question.choice_set.all %}
    <div class="form-check">
        <input type="radio" name="choice" class="form-check-
input" id="choice{{ forloop.counter }}"
            value="{{ choice.id }}" />
        <label for="choice{{ forloop.counter }}">{{
choice.choice_text }}</label>
    </div>
    {% endfor %}
    <input type="submit" value="Vote" class="btn btn-success btn-
lg btn-block mt-4" />
</form>
{% endblock %}

```

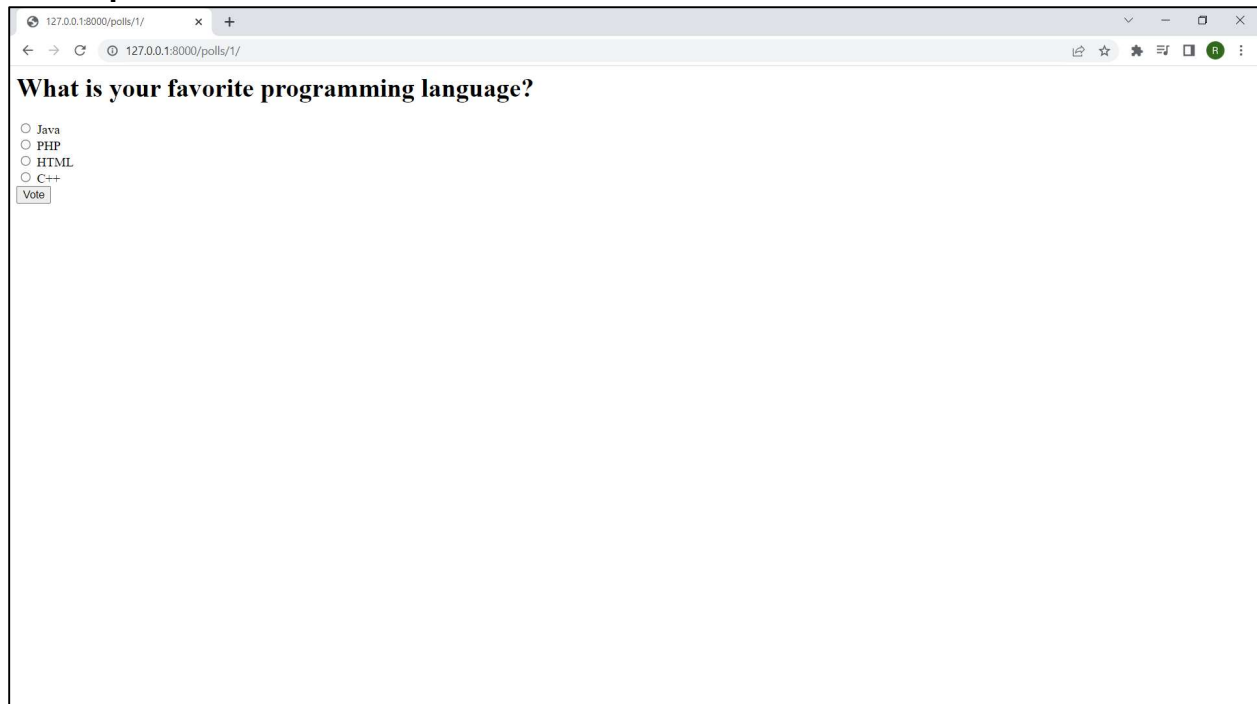
Results.html-

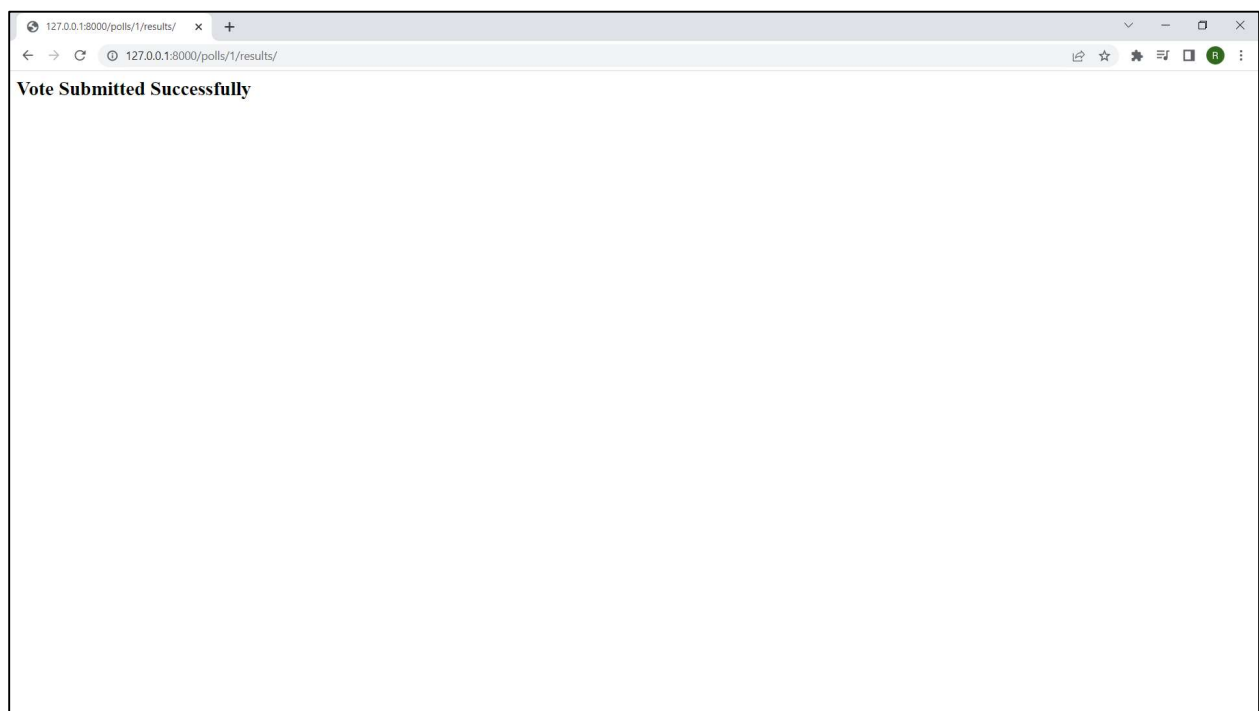
```

{% block content %}
<h2> Vote Submitted Successfully</h2>
{% endblock %}

```

//Output-





24. An admin site that lets you add, change and delete programming languages.

models.py -

```
from django.db import models

class Question(models.Model):
    question_text = models.CharField(max_length = 200)
    pub_date = models.DateTimeField('date published')

    def __str__(self):
        return self.question_text

class Choice(models.Model):
    question = models.ForeignKey(Question, on_delete = models.CASCADE)
    choice_text = models.CharField(max_length = 200)
    votes = models.IntegerField(default = 0)

    def __str__(self):
        return self.choice_text
```

admin.py -

```
from django.contrib import admin
# Register your models here.
from .models import Question, Choice

# admin.site.register(Question)
# admin.site.register(Choice)

admin.site.site_header = "Pollster Admin"
admin.site.site_title = "Pollster Admin Area"
admin.site.index_title = "Welcome to the Pollster Admin Area"

class ChoiceInline(admin.TabularInline):
    model = Choice
    extra = 3

class QuestionAdmin(admin.ModelAdmin):
    fieldsets = [(None, {'fields': ['question_text']}), ('Date
Information', {
        'fields': ['pub_date'], 'classes': ['collapse']}), ]
    inlines = [ChoiceInline]

admin.site.register(Question, QuestionAdmin)
```

//Output-

What is your favorite programming language?

Date Information (Show)

CHOICE TEXT	VOTES	DELETE?
Java	1	<input type="checkbox"/>
PHP	2	<input type="checkbox"/>
HTML	1	<input type="checkbox"/>
C++	1	<input type="checkbox"/>
	0	<input type="checkbox"/>
	0	<input type="checkbox"/>
	0	<input type="checkbox"/>

+ Add another Choice

Delete

Save and add another

Save and continue editing

SAVE

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Users

+ Add

POLLS

Questions

+ Add

25.Create your own blog using Django.

models.py -

```
from django.db import models
from django.contrib.auth.models import User
class myblog(models.Model):
    title = models.CharField(max_length=200, unique=True)
    slug = models.CharField(max_length=200, unique=True)
```

views.py -

```
from django.shortcuts import render
from blog.models import myblog
def myf(req):
    model = myblog
    context = {"reg":myblog.objects.all()}
    return render(req,'blog.html',context)
```

urls.py -

```
from django.contrib import admin
from django.urls import path
from blog.views import myf
urlpatterns = [
    path('admin/', admin.site.urls),
    path('blog/',myf)
]
```

blog.html -

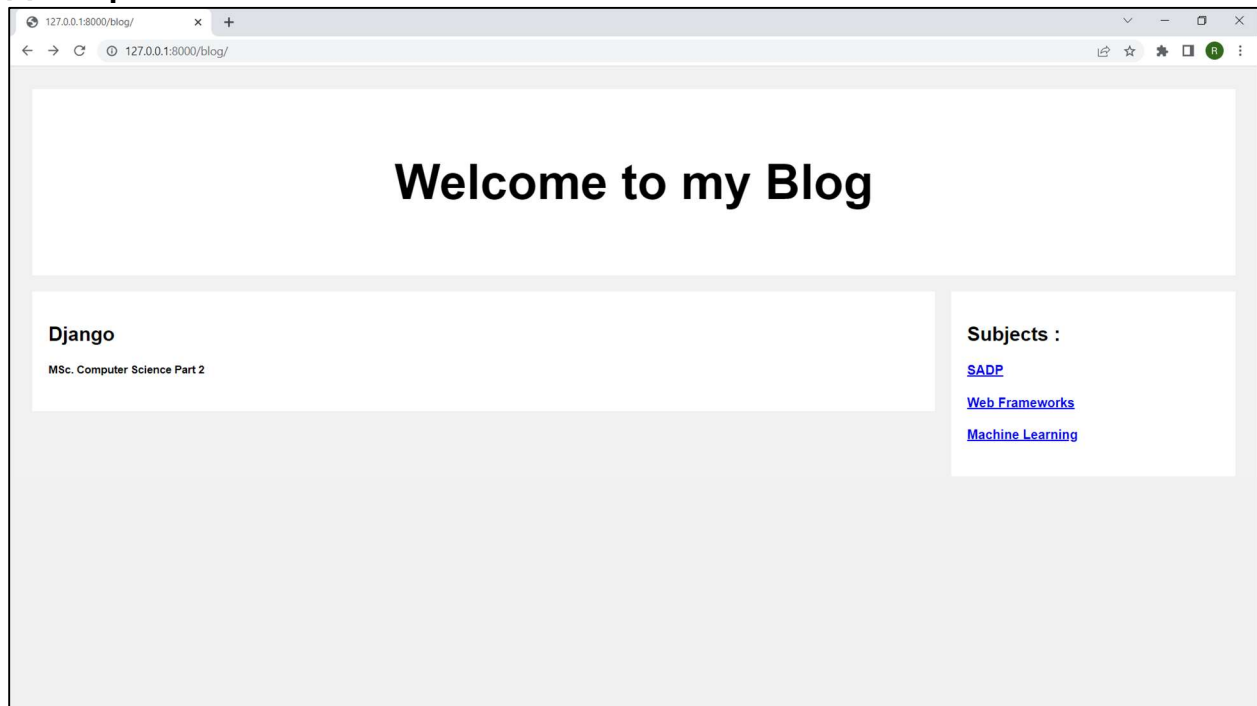
```
<!DOCTYPE html>
<html>
<head>
</head>
<body>

<div class="header">
    <h2>Welcome to my Blog</h2>
</div>

<div class="row">
    <div class="leftcolumn">
        <div class="card">
            <h2>Django</h2>
            <h5>MSc. Computer Science Part 2</h5>
        </div>
    </div>
    <div class="rightcolumn">
```

```
<div class="card">
  <h2>Subjects :</h3>
  <h4>SADP</h6>
  <h4>Web Frameworks</h6>
  <h4>Machine Learning</h6>
</div>
</div>
</div>
</body>
</html>
```

//Output-



26. Create a clone of the “Hacker News” website.

urls.py -

```
from django.contrib import admin
from django.urls import path
from newclone.views import newclone
urlpatterns = [
    path('admin/', admin.site.urls),
    path('home/', newclone),
]
```

views.py -

```
from django.shortcuts import render
```

```
def newclone(req):
    return render(req, 'index.html')
```

index.html -

as per design.

//Output -

