	DATE:	
	APM- TO Study Flask	
	Parblem Statement -	
	Design wing flask	
Q.	A contact w from	
p.	A postfolio McPrite	
	pemonstrate the usage of Rouking, request object	
•	and Templaking.	
	T a s	
	Theory -	
10	LB+ some of the cose features of flask?	
	THE STITE OF THE SOC TRAINES OF THEIR	
-> a.	LP9huer9n+ and Cosy to use.	
b	Jenja templaking	
C	Unit tesking	
9	Support for secure cookies.	
0		
2.	why do we use Flasic (-name-) in flasic?	
4 -	The image of the state of the s	
2,00	The sman - mane - about ment it passed to the	
	then used to our the application.	
b.	Flask wes by the know from where to set	
	Lesonaces, templates, starks files, etc. required to	
	dun the application.	
6	It is just a convenient way to get the emport name	
	of the place where the app is defined	
	FOR EDUCATIONAL USE	

	DATE.			
3.	What is remplate (template Inheastance) in			
	Flask?			
-5- a	Temprate Phesitance is a mechanism that allows.			
	you to coase a base skeleton' template			
	that conterns all common elements of your			
	Site and define books that Child templates			
	Can Orlogide.			
5.	Example			
	# base html			
	doctype html			
	Chtm>			
	Chead			
	&BHE > 2°10 block BHE °10 4 2°10 Endblock °10			
	LINEAD			
	Khody)			
	Cheader)			
	\$ 010 PLOCK HOOGER 010 36			
	< h1> welcome:			
	2010 end brock 010 3			
	< 1 heads >			
	# CNJA . PF WI			
	2010 extends "base html"3			
	2º10 block little °10 g my page 2°10 endblock 0103			

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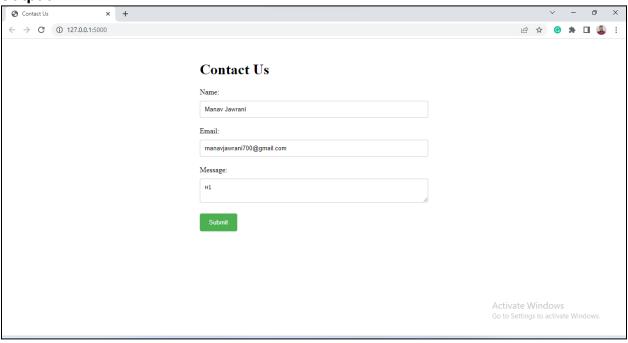
U.	what methods of inflask?	HTTP are emplemented	
<i>→</i> ،	The HTTP methods used ases-		
a.	GET- Used to retorieve date from the server		
Ь.	POST - Enginer used to send data to server.		
C	PUT - Used to update on exilting belowere on the		
	Seaver		
g.	DELETE - USED to delete a rejource on the server.		
<b>●</b> €1	HEAD- Reformes the sesource's headers without		
	the Bource ?tself.		
9	mot is gitterine	between flasic and	
	lfango framewood?		
5	Flasic	Django	
Q.	It?s built for sapid	It is built for easy	
0	development	and compre paojects.	
b,	It? USUI framework	It?s a full Stack Banewak	
Ce	Parvider Suppost for API	DORSNOT SUPPORT API	
d.	Support visual debug	No Suppos for virual design	
e.	DOES NOT OFFER GALOWIC	Offers dynamic HTML	
	HTML Pages	pages.	
+	Surtable for 1919e page	me can divide a project	
	application	Poto multiple page.	

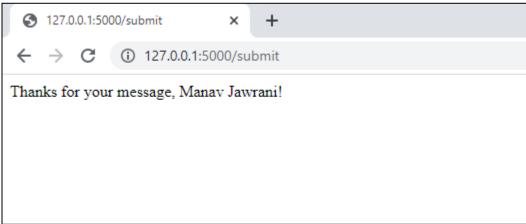
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```
Q1.
Code:
app.py
from flask import Flask, render template, request
app = Flask( name )
@app.route('/')
def index():
  return render template('contact.html')
@app.route('/submit', methods=['POST'])
def submit():
  name = request.form.get('name')
  email = request.form.get('email')
  message = request.form.get('message')
  # do something with the form data, e.g. send an email
  return 'Thanks for your message, ' + name + '!'
if __name__ == '__main__':
  app.run(debug=True)
contact.html
<!DOCTYPE html>
<html lang="en">
 <head>
  <title>Contact Us</title>
  <style>
   label {
     display: block;
     margin-bottom: 10px;
   input[type="text"], input[type="email"], textarea {
     width: 100%;
     padding: 10px;
     margin-bottom: 20px;
     border: 1px solid #ccc;
     border-radius: 4px;
     box-sizing: border-box;
   input[type="submit"] {
     background-color: #4CAF50;
     color: white;
```

```
padding: 12px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
   input[type="submit"]:hover {
    background-color: #45a049;
   }
   .container {
    max-width: 500px;
    margin: auto;
    padding: 20px;
  </style>
 </head>
 <body>
  <div class="container">
   <h1>Contact Us</h1>
   <form action="/submit" method="post">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name">
    <label for="email">Email:</label>
    <input type="email" id="email" name="email">
    <label for="message">Message:</label>
    <textarea id="message" name="message"></textarea>
    <input type="submit" value="Submit">
   </form>
  </div>
 </body>
</html>
```

## **Output:**





```
Q2.
Code
app.py
from flask import Flask, render template, request
app = Flask( name )
# Home page
@app.route('/')
def home():
  return render template('index.html')
# About page
@app.route('/about')
def about():
  return render template('about.html')
# Contact page
@app.route('/contact', methods=['GET', 'POST'])
def contact():
  if request.method == 'POST':
    # process the form data
    name = request.form['name']
    email = request.form['email']
    message = request.form['message']
    # render the contact template with success message
    return render template('contact.html', success=True)
  else:
    # render the contact template with failure message
    return render template('contact.html', success=False)
if __name__ == '__main__':
  app.run(debug=True)
index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Portfolio | Home</title>
  k rel="stylesheet" href="{{ url for('static', filename='css/style.css') }}">
</head>
<body>
  <header>
     <nav>
```

```
<l
         <a href="/">Home</a>
         <a href="/about">About</a>
         <a href="/contact">Contact</a>
      </nav>
  </header>
  <main>
    <section class="hero">
      <h1>Welcome to my portfolio website</h1>
           I am a software engineer with experience in web development, machine
learning, and data analysis.
    </section>
    <section class="about">
      <h2>About Me</h2>
      <div class="about-content">
               <img src="{{ url_for('static', filename='images/profile.jpeg') }}" alt="Profile
Picture">
             I am a software engineer with experience in web development, machine
learning, and data analysis. I am pursuing a bachelor's degree in information technology
and I am passionate about solving challenging problems using technology.
      </div>
    </section>
  </main>
  <footer>
    © 2023 - Portfolio Website
  </footer>
</body>
</html>
```

## Output

