

Python & Django Internship Report

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Company Name : Akash Technolabs
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Training Duration : 26-05-2021 to 14-06-2021

Index

<u>Index</u>	<u>Task Detail</u>	<u>Page Name</u>
1	Create simple html form and static website.	3
2	Basic conceptual programs in python.	6
3	Python programs to understand the basics of functions.	9
4	Python complicated programs depended on functions.	13
5	Programs to understand the object-oriented programming concepts in python.	17
6	Installation of latest version of Django and create a project in Django.	21
7	Create app-based work in Django project.	25
8	Create website and add the html theme in Django project.	33
9	Create python GET-POST method-based project	45
10	CRUD operation in Django Frame work.	52

❖ Task for Day 1

- ❖ I have created a registration form using html and CSS.

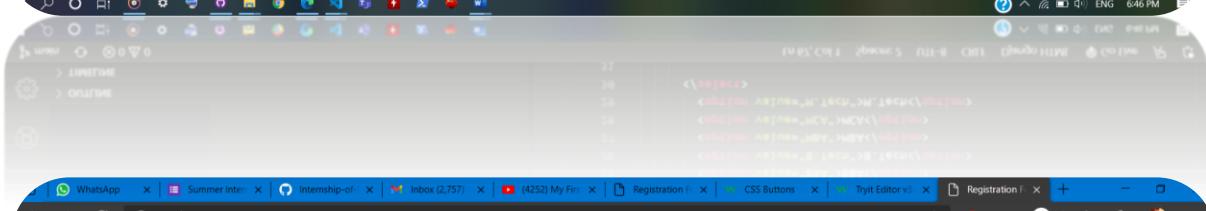
```

File Edit Selection View Go Run Terminal Help
OPEN EDITORS
GROUP 1
  style.css
GROUP 2
  form.html
  style.css
FORM
  form.html
  style.css
style.css > h1
1 h1, body{
2   font-family: 'Lucida Console';
3   text-align: left;
4   padding-bottom: 5px;
5   border-bottom: 3px Solid ;
6   color: #rgb(123, 99, 190);
7   font-weight: 1500;
8 }
9 .button {
10   background-color: #5d6dcc;
11   border: none;
12   color: white;
13   padding: 12px 26px;
14   text-align: center;
15   text-decoration: none;
16   display: inline-block;
17   font-size: 12px;
18   margin: 4px 2px;
19   cursor: pointer;
20 }
21 }

dj form.html > style.css
1 <html>
2   <head>
3     <title>Registration Form by vishal Prajapati</title>
4   <link rel="stylesheet" href="style.css">
5   </head>
6   <body bgcolor="white" align="left">
7     <h1> Registration form </h1>
8     <br />
9     <br />
10    <form>
11      <label> Firstname </label>
12      <input type="text" name="firstname" size="15" /> <br />
13      <br />
14      <label> Middlename: </label>
15      <input type="text" name="middlename" size="15" /> <br />
16      <br />
17      <label> Lastname: </label>
18      <input type="text" name="lastname" size="15" /> <br />
19      <br />
20      <label> Course : </label>
21      <select>
22        <option value="Course">Course</option>
23        <option value="BCA">BCA</option>
24        <option value="BBA">BBA</option>
25        <option value="B.Tech">B.Tech</option>
26        <option value="MBA">MBA</option>
27        <option value="MCA">MCA</option>
28        <option value="M.Tech">M.Tech</option>
29      </select>
30
31

```

Ln 67, Col 1 Spaces: 2 UTF-8 CRLF Django HTML Go Live



Registration form

Firstname:

Middlename:

Lastname:

Course :

Gender :

Male

Female

Other

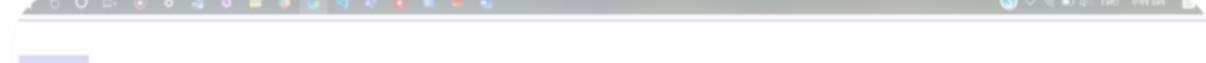
Phone : +91

Address

Email:

Password:

Re-type password:



Output:

Simple html website.

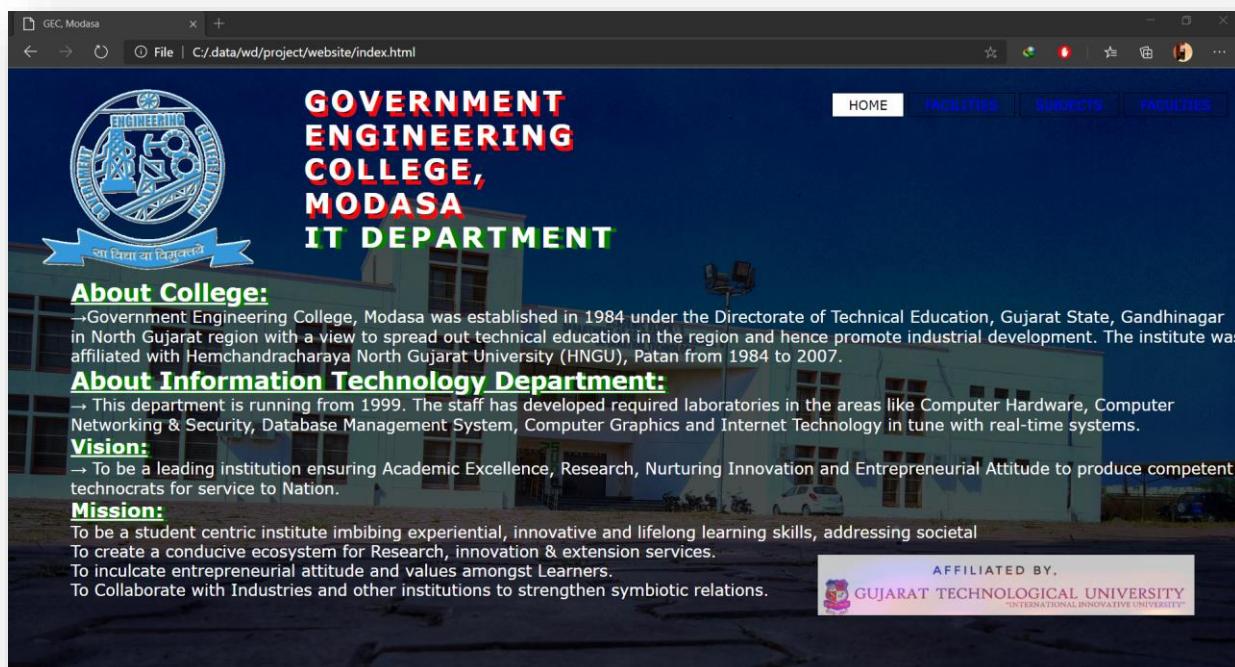


Image 1.0(homepage)

GOVERNMENT ENGINEERING COLLEGE, MODASA

FACILITIES

Student Section :



Student section looks after admission, registration of students, scholarships, concession, identity card, transcript and bonafide certificates, character certificates. Situated at Main Building (01).
Coordinator : Prof.(Dr.) M. I. Vyas (Associate Prof. in Mechanical Dept.)
Co-Coordinator : Prof. P. R. Parekh (Assistant Prof. in Mechanical Dept.)

Library :



The college has a rich library having total 21,050 books and 6,609 volumes costing more than Rs. 28 lacs. Every year the college purchases new books to enrich the collection of the library and to keep the readers abreast with latest knowledge, journals, periodicals and proceeding for various disciplines are regular feature of library. It also contains a well equipped computer lab for the students.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists files and folders. Opened files include `4.py`, `5.py`, `6.py`, `7.py`, `Release Notes: 1.57.0`, `Python - Get Started`, and `dj activities.html`.
- Code Editor:** The main editor area displays the `activities.html` file content. The code is an HTML document with a navigation menu and a logo.
- Terminal:** At the bottom, the terminal shows the command `python 3.9.4 64-bit`.
- Activity Bar:** On the far right, there are icons for extensions, GitHub, and other developer tools.

```
<!DOCTYPE html>
<html>
<head>
    <title>faculties</title>
    <link rel="stylesheet" type="text/css" href="style.css">
<ul>
    <li><a href="index.html">HOME</a></li>
    <li><a href="administration.html">FACILITIES</a></li>
    <li><a href="syllabus.html">SUBJECTS</a></li>
    <li class="home"><a href="activities.html">ACTIVITIES</a></li>
    <li><a href="faculties.html">FACULTIES</a></li>
</ul>
<table>
    <tr>
        <td>
            <div></div>
        <td>
            <h3 style="padding-left: 20px; font-size: 20px;">GOVERNMENT ENGINEERING COLLEGE, <br> MODASA</h3>
        </td>
    </tr>
</table>
</head>
<body bgcolor = "#ED7878" >
</body>
```

Note:

All the credit of information and photos goes to www.gecmodasa.ac.in.

- **Task of day 2:**

We understood the basics of python and installation of python so here is some basic programs to understand the concept of python.

AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows a Visual Studio Code interface with the title "list.py - Internship-of-Python-Django - Visual Studio Code". The Explorer sidebar on the left lists files such as 11nestedifelse.py, 12greatestnested.py, 13smallestlogical.py, 14swapnovar.py, 15seriesof3.py, and list.py. The list.py file is currently selected. The terminal window at the bottom shows the output of running the script:

```
vishals roll number  
apple  
vishals roll number  
vishals roll number  
<class 'dict'>  
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\list.py"  
5000  
the value of list1[0:4] = [88, 89, 5000, 100]  
the value of list1[0:4] = [88, 89, 5000, 100, 'vishal']  
the value of list1[0:4] = [88, 89, 5000, 100]  
<class 'list'>
```

The screenshot shows a Visual Studio Code interface with the title "slicefn.py - Internship-of-Python-Django - Visual Studio Code". The Explorer sidebar lists files including slicefn.py, which is currently selected. The terminal window shows the output of running the script:

```
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\slicefn.py"  
<class 'dict'>  
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\slicefn.py"  
5000  
the value of list1[0:4] = [88, 89, 5000, 100]  
the value of list1[0:4] = [88, 89, 5000, 100, 'vishal']  
the value of list1[0:4] = [88, 89, 5000, 100]  
<class 'list'>  
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\slicefn.py"  
(1, 3, 5, 7)
```

The screenshot shows a Visual Studio Code interface with the title "13smallestlogical.py - Internship-of-Python-Django - Visual Studio Code". The Explorer sidebar lists files including 13smallestlogical.py, which is currently selected. The terminal window shows the output of running the script:

```
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\13smallestlogical.py"  
5000  
the value of list1[0:4] = [88, 89, 5000, 100]  
the value of list1[0:4] = [88, 89, 5000, 100, 'vishal']  
the value of list1[0:4] = [88, 89, 5000, 100]  
<class 'list'>  
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\13smallestlogical.py"  
(1, 3, 5, 7)
```

AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Open Editors:** Day 2 > tuple.py
- Code Content:**

```
Day 2 > tuple.py > ...
1 list1=[88,89,90,100,"vishal"]
2
3 print(list1[2])
4 print("the value of list1[0:4] = ",list1[0:4])
5 print("the value of list1[0:4] = ",list1[:5])
6 print("the value of list1[0:4] = ",list1[:4])
7 print(type(list1))
```
- Output:** The terminal shows the execution of the code:

```
the value of list1[0:4] = [88, 89, 90, 100]
the value of list1[0:4] = [88, 89, 90, 100, 'vishal']
the value of list1[0:4] = [88, 89, 90, 100]
<class 'list'>

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\slicefn.py"
(1, '3', '5', '7')

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>"Day 1"python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\tuple.py"
'Day 1"python' is not recognized as an internal or external command,
operable program or batch file.
```
- Bottom Status Bar:** Ln 7, Col 19 Spaces: 4 UTF-8 CRLF Python Go Live

The screenshot shows the Visual Studio Code interface with the following details:

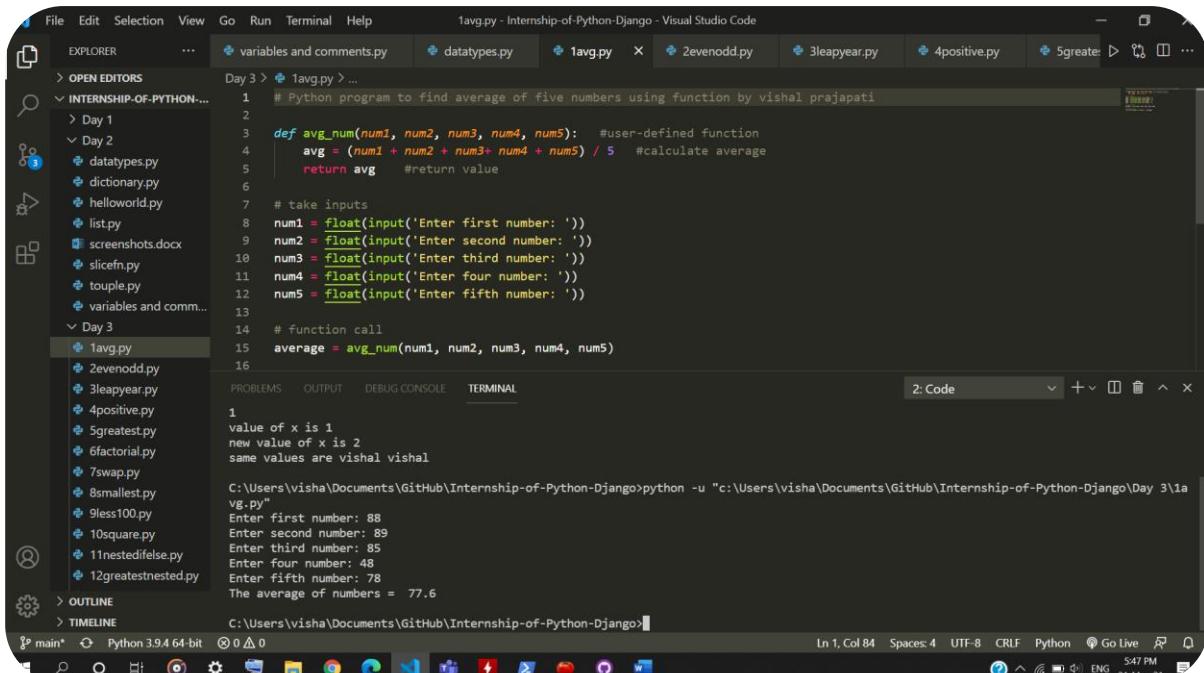
- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Open Editors:** Day 2 > variables and comments.py
- Code Content:**

```
Day 2 > variables and comments.py > ...
1 """
2     this is
3         multiline
4             comment"""
5
6 """
7     this is
8     also
9         multiline
10    comment"""
11
12 x=2
13 print("new value of x is",x)
14 x="vishal"
15 print("same values are",y ,x)
```
- Output:** The terminal shows the execution of the code:

```
ay 2\tuple.py"
'Day 1"python' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 2\variables and comments.py"
1
vishal
vishal
1
value of x is 1
new value of x is 2
same values are vishal vishal
```
- Bottom Status Bar:** Ln 27, Col 13 Spaces: 2 UTF-8 CRLF Python Go Live

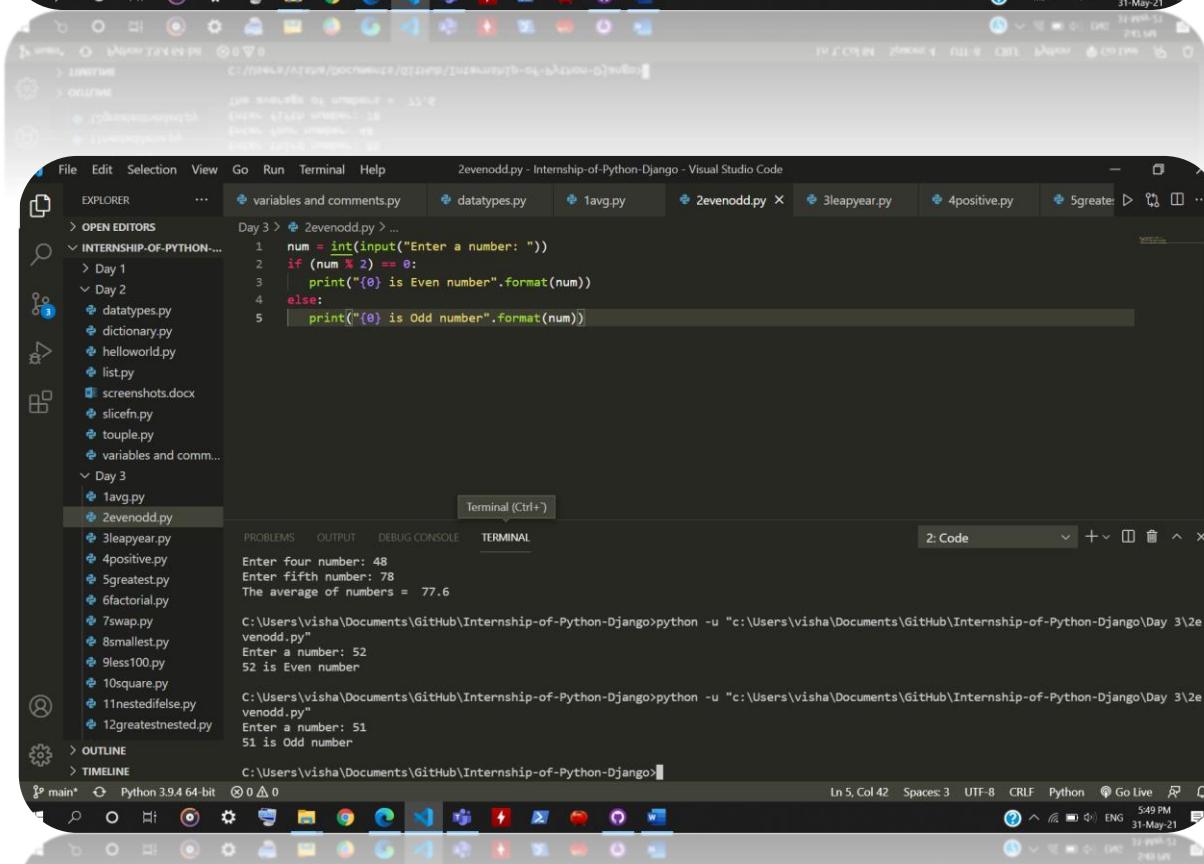
- **Task of day3:** here is some general python programs to understand the basics of functions of python.



```

File Edit Selection View Go Run Terminal Help
1avg.py - Internship-of-Python-Django - Visual Studio Code
EXPLORER ... variables and comments.py datatypes.py 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py
OPEN EDITORS Day 3 > 1avg.py ...
1 # Python program to find average of five numbers using function by vishal prajapati
2
3 def avg_num(num1, num2, num3, num4, num5): #user-defined function
4     avg = (num1 + num2 + num3+ num4+ num5) / 5 #calculate average
5     return avg #return value
6
7 # take inputs
8 num1 = float(input(' Enter first number: '))
9 num2 = float(input('Enter second number: '))
10 num3 = float(input('Enter third number: '))
11 num4 = float(input('Enter four number: '))
12 num5 = float(input('Enter fifth number: '))
13
14 # function call
15 average = avg_num(num1, num2, num3, num4, num5)
16
1
value of x is 1
new value of x is 2
same values are vishal vishal
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\1avg.py"
Enter first number: 88
Enter second number: 89
Enter third number: 85
Enter four number: 48
Enter fifth number: 78
The average of numbers = 77.6

```



```

File Edit Selection View Go Run Terminal Help
2evenodd.py - Internship-of-Python-Django - Visual Studio Code
EXPLORER ... variables and comments.py datatypes.py 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py
OPEN EDITORS Day 3 > 2evenodd.py ...
1 num = int(input("Enter a number: "))
2 if (num % 2) == 0:
3     print("{0} is Even number".format(num))
4 else:
5     print("{0} is Odd number".format(num))
1
Enter four number: 48
Enter fifth number: 78
The average of numbers = 77.6
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\2evenodd.py"
Enter a number: 52
52 is Even number
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\2evenodd.py"
Enter a number: 51
51 is Odd number

```

AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists "OPEN EDITORS" and "INTERNSHIP-OF-PYTHON...". The "INTERNSHIP-OF-PYTHON..." folder contains files like Day 1, Day 2, Day 3, datatypes.py, dictionary.py, helloworld.py, listpy, screenshots.docx, slicefn.py, tuplepy, and variables and comm... .
- Code Editor:** The main area displays Python code for determining if a year is a leap year. The code uses if-else statements to check for divisibility by 4, 100, and 400.
- Terminal:** At the bottom, the terminal window shows the execution of the script. It attempts to run "3leapyear.py" but fails because the file cannot be found. It then runs "3leapyear.py" again, prompting for input, and correctly identifies 2012 as a leap year and 2021 as not being a leap year.
- Status Bar:** The bottom bar shows the file is "main*", the Python version is "Python 3.9.4 64-bit", and the status is "In 11, Col 50".

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view of files under "INTERNSHIP-OF-PYTHON...". The "Day 3" folder is expanded, showing files: Day 1, Day 2, Day 3, 1avg.py, 2evenodd.py, 3leapyear.py, 4positive.py, 5greatest.py, 6factorial.py, 7swap.py, 8smallest.py, 9less100.py, 10square.py, 11nestedelse.py, and 12greatestnested.py.
- Code Editor:** Displays the content of the 4positive.py file:

```
1 num = float(input("Enter a number: "))
2
3 if num > 0:
4     print("{0} is a positive number".format(num))
5 elif num == 0:
6     print("{0} is zero".format(num))
7 else:
8     print("{0} is negative number".format(num))
```
- Terminal:** Shows the output of running the 4positive.py script:

```
ositive.py"
Enter a number: -88
-88.0 is negative number

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\4positive.py"
Enter a number: 88
88.0 is a positive number

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\tempCodeRunnerFile.py"

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\4positive.py"
Enter a number: 0
```
- System Taskbar:** Shows various pinned icons including File Explorer, GitHub, Microsoft Edge, and others.

AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view of files in the "INTERNSHIP-OF-PYTHON..." folder, including "Day 1", "Day 2", "Day 3", and several Python files like "datatype.py", "list.py", "slicefn.py", etc.
- Editor:** Displays the content of "5greatest.py". The code is as follows:

```
Day 3 > 5greatest.py ...
1 # Python program to find the greatest of two numbers using the built-in function by vishal prajapati
2 num1 = int(input("Enter the first number: "))
3 num2 = int(input("Enter the second number: "))
4 print(max(num1, num2), "is greater")
```

- Terminal:** Shows the execution of the script "5greatest.py" and other scripts from the "Day 3" directory. The output includes:
 - Execution of "5greatest.py":
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\5greatest.py"
Enter a number: 0
0.0 is zero
 - Execution of "4positive.py":
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\4positive.py"
Enter a number: 54
54 is greater
- Status Bar:** Shows the file name "5greatest.py", Python version "Python 3.9.4 64-bit", line count "Ln 4, Col 37", and date "31-May-21".

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists files under "INTERNSHIP-OF-PYTHON...". The "6factorial.py" file is currently selected.
- Code Editor:** The main area displays Python code for calculating factorial. The code handles negative numbers, zero, and positive numbers.
- Terminal:** Below the editor, the terminal window shows the execution of the script with user input for two numbers (54 and 45) and the output stating that 54 is greater than 45.
- Status Bar:** At the bottom, it shows the file path "C:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\6factorial.py", the current line "Ln 10, Col 8", and the status "Python".

A screenshot of the Visual Studio Code interface. The title bar reads "7swap.py - Internship-of-Python-Django - Visual Studio Code". The left sidebar shows an "EXPLORER" view with a tree structure of files in the "INTERNSHIP-OF-PYTHON-Django" folder, including "Day 3", "Day 4", and various Python files like "7swap.py", "2evenodd.py", etc. The main editor area contains the following Python code:

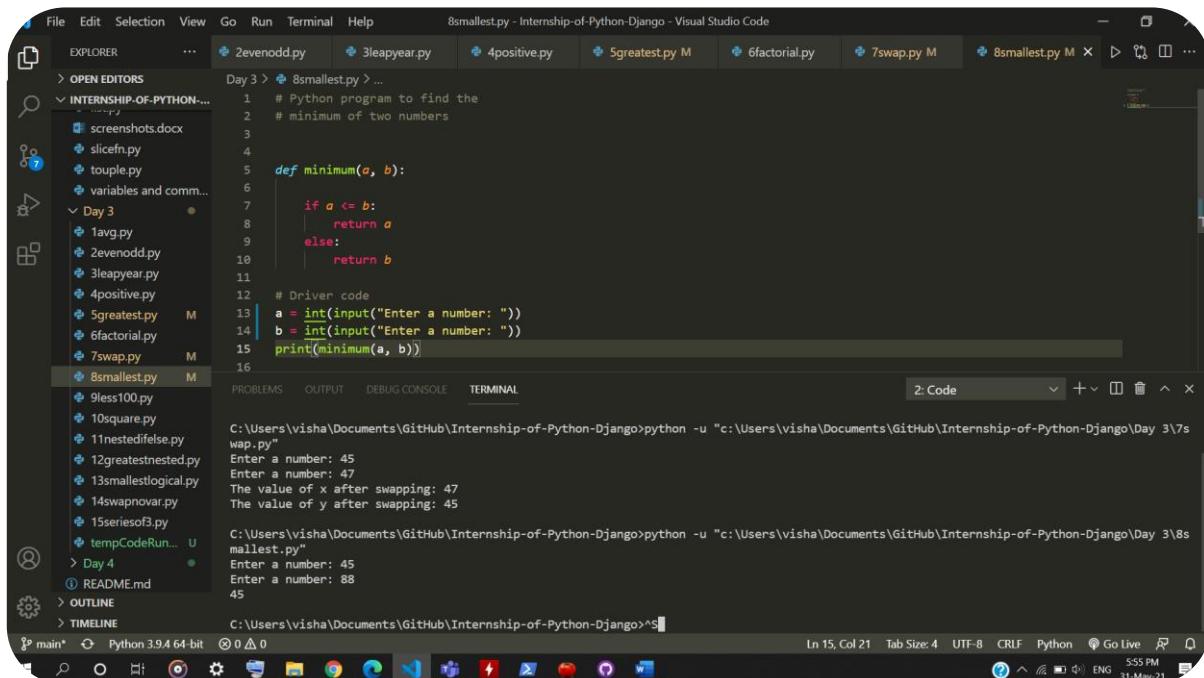
```
1 # Python program to swap two variables
2
3 x = int(input("Enter a number: "))
4 y = int(input("Enter a number: "))
5
6 # To take inputs from the user
7 #x = input('Enter value of x: ')
8 #y = input('Enter value of y: ')
9
10 # create a temporary variable and swap the values
11 temp = x
12 x = y
13 y = temp
14
15 print('The value of x after swapping: {}'.format(x))
16 print('The value of y after swapping: {}'.format(y))
```

The "OUTPUT" tab shows the terminal output of running the program:

```
The value of x after swapping: 10
The value of y after swapping: 5
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\8smallest.py"
2
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\7swap.py"
Enter a number: 45
Enter a number: 47
The value of x after swapping: 47
The value of y after swapping: 45
```

The status bar at the bottom shows "In 4, Col 36" and "31-May-21".

- **Task of day4:** here is some complicated python programs to understand the basics of functions of python.



File Edit Selection View Go Run Terminal Help 8smallest.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER OPEN EDITORS Day 3 > 8smallest.py ...

```

1 # Python program to find the
2 # minimum of two numbers
3
4
5 def minimum(a, b):
6
7     if a <= b:
8         return a
9     else:
10        return b
11
12 # Driver code
13 a = int(input("Enter a number: "))
14 b = int(input("Enter a number: "))
15 print(minimum(a, b))
16

```

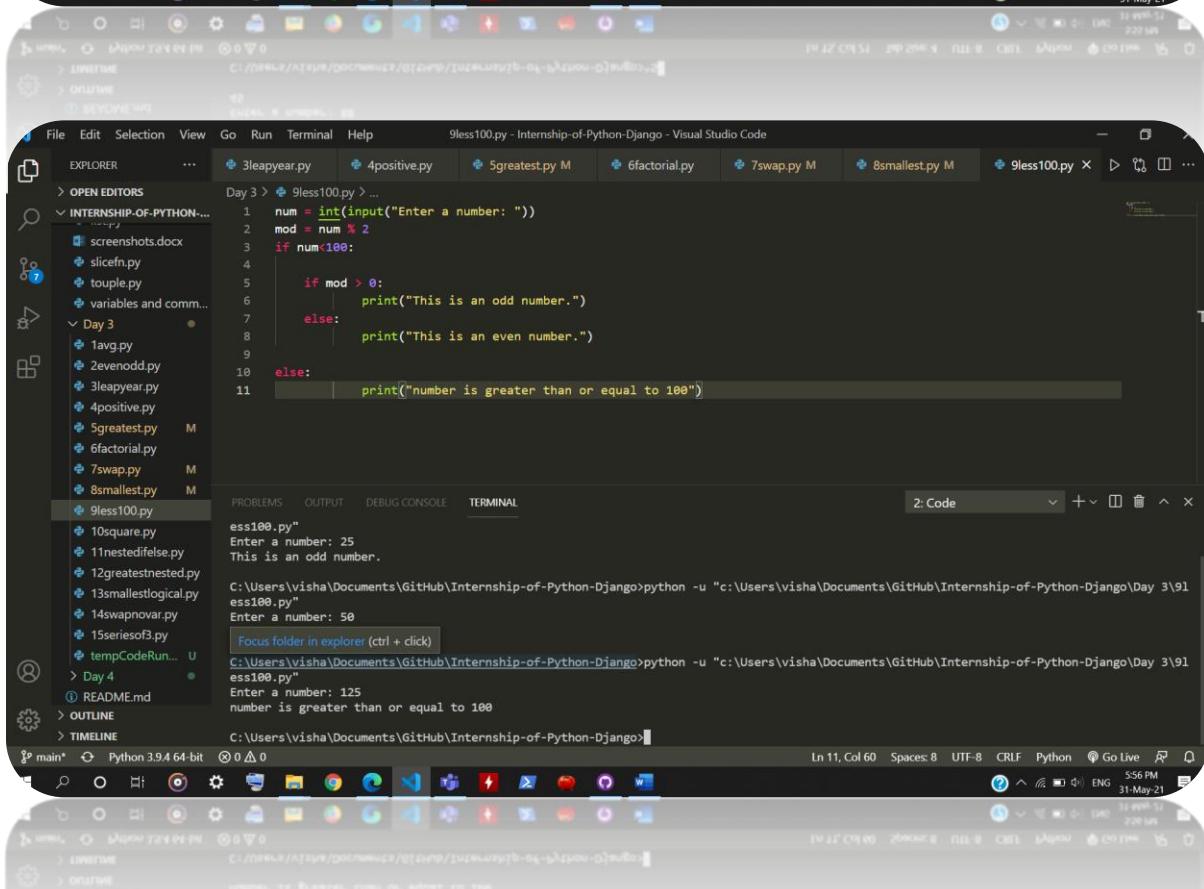
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\7swap.py"
Enter a number: 45
Enter a number: 47
The value of x after swapping: 47
The value of y after swapping: 45

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\8smallest.py"
Enter a number: 45
Enter a number: 88
45

main* Python 3.9.4 64-bit 0 △ 0

In 15, Col 21 Tab Size: 4 UTF-8 CRLF Python Go Live



File Edit Selection View Go Run Terminal Help 9less100.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER OPEN EDITORS Day 3 > 9less100.py ...

```

1 num = int(input("Enter a number: "))
2 mod = num % 2
3
4 if num<100:
5
6     if mod > 0:
7         print("This is an odd number.")
8     else:
9         print("This is an even number.")
10 else:
11     print("number is greater than or equal to 100")

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

ess100.py"
Enter a number: 25
This is an odd number.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\91ess100.py"
Enter a number: 50
Focus folder in explorer (ctrl + click)
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\91ess100.py"
Enter a number: 125
number is greater than or equal to 100

main* Python 3.9.4 64-bit 0 △ 0

In 11, Col 60 Spaces: 8 UTF-8 CRLF Python Go Live

AKASH TECHNOLABS INTERNSHIP REPORT

File Edit Selection View Go Run Terminal Help 10square.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER OPEN EDITORS Day 3 > 10square.py > ...

INTERNSHIP-OF-PYTHON... screenshots.docx slicefn.py tuple.py variables and comm... Day 3 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py M 6factorial.py 7swap.py M 8smallest.py M 9less100.py 10square.py M 11nestedifelse.py 12greatestnested.py 13smallestlogical.py 14swapnover.py 15seriesofB.py tempCodeRun... U Day 4 README.md OUTLINE TIMELINE C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

```
1 # Python Program to Calculate Square of a Number by vishal prajapati
2
3 number = float(input(" Please Enter any numeric Value : "))
4
5 square = number * number
6
7 if number<10:
8
9     print("The Square of a Given Number {} = {}".format(number, square))
10
11 else:
12     print("Entered number is greater than or equal to 10")
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: Code

```
ess100.py"
Enter a number: 125
number is greater than or equal to 100

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\10square.py"
Please Enter any numeric Value : 25
Entered number is greater than or equal to 10

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\10square.py"
Please Enter any numeric Value : 5
The Square of a Given Number 5.0 = 25.0
```

In 7, Col 15 Spaces: 4 UTF-8 CRLF Python Go Live 556 PM 31-May-21

File Edit Selection View Go Run Terminal Help 11nestedifelse.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER OPEN EDITORS Day 3 > 11nestedifelse.py > ...

INTERNSHIP-OF-PYTHON... screenshots.docx slicefn.py tuple.py variables and comm... Day 3 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py M 6factorial.py 7swap.py M 8smallest.py M 9less100.py 10square.py M 11nestedifelse.py M 12greatestnested.py M 13smallestlogical.py M 14swapnover.py M 15seriesofB.py tempCodeRun... U Day 4 README.md OUTLINE TIMELINE C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

```
1 # This time use nested if to solve the problem
2
3 num = float(input("Enter a number: "))
4
5 if num >= 0:
6     if num == 0:
7         print("Zero")
8     else:
9         print("Positive number")
10    else:
11        print("Negative number")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: Code

```
nestedifelse.py"
Enter a number: 25
Positive number

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\11nestedifelse.py"
nestedifelse.py"
Enter a number: -25
Negative number

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\11nestedifelse.py"
nestedifelse.py"
Enter a number: 0
Zero
```

In 5, Col 16 Spaces: 4 UTF-8 CRLF Python Go Live 557 PM 31-May-21

AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it lists files under "INTERNSHIP-OF-PYTHON...". The file "12greatestnested.py" is currently selected.
- Code Editor:** The main area displays the following Python code:

```
1 # Python program to find the greatest of three numbers using if-else statement by vishal prajapati
2 num1 = int(input("Enter the first number:"))
3 num2 = int(input("Enter the second number:"))
4 num3 = int(input("Enter the third number:"))
5 if (num1 >= num2) and (num1 >= num3):
6     largest = num1
7 elif (num2 >= num1) and (num2 >= num3):
8     greatest = num2
9 else:
10     greatest = num3
11 print("The greatest number is",greatest)
```
- Terminal:** At the bottom, the terminal window shows the execution of the script:

```
C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:/Users/visha/Documents/GitHub/Internship-of-Python-Django/Day 3/11nestedifelse.py"
Enter a number: 0
Zero

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:/Users/visha/Documents/GitHub/Internship-of-Python-Django/Day 3/12greatestnested.py"
Enter the first number:25
Enter the second number:50
Enter the third number:45
The greatest number is 50
```
- Bottom Status Bar:** Shows the file path "C:/Users/visha/Documents/GitHub/Internship-of-Python-Django/12greatestnested.py", line 11, column 41, and other system information like battery level and date.

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a tree view of files. Under "INTERNSHIP-OF-PYTHON...", there are several files: screenshots.docx, slicefn.py, tuple.py, variables and comm.., Day 3 (containing avg.py, evenodd.py, leapyear.py, positive.py, greatest.py, factorial.py, swap.py, 8smallest.py, 9less100.py, 10square.py, 11nestedifelse.py, 12greatestnested.py, 13smallestlogical.py), Day 4 (containing tempCodeRun.py), README.md, OUTLINE, and TIMELINE.
- Code Editor:** The main editor area displays a Python script named 13smallestlogical.py. The code reads three numbers from the user and prints the smallest one. The code is as follows:

```
a = int(input('Enter first number : '))
b = int(input('Enter second number : '))
c = int(input('Enter third number : '))
smallest = 0
if a < b and a < c :
    smallest = a
elif b < c :
    smallest = b
else :
    smallest = c
print(smallest, "is the smallest of three numbers.")
```

- Terminal:** Below the editor is a terminal window showing the execution of the script. It prompts for three numbers (25, 50, 45) and outputs "The greatest number is 50". Another execution is shown below, where the numbers 8, 21, and 12 are entered, and the output "0 is the smallest of three numbers." is displayed.
- Bottom Status Bar:** The status bar at the bottom shows the file path (C:\Users\visha\Documents\GitHub\Internship-of-Python-Django), line 10, column 10, spaces: 4, UTF-8 encoding, Python language, and the date/time (5:58 PM, 31-May-21).

AKASH TECHNOLABS INTERNSHIP REPORT

File Edit Selection View Go Run Terminal Help 14swapnover.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER ... OPEN EDITORS > INTERNSHIP-OF-PYTHON... screenshots.docx slicefn.py tuple.py variables and comm... Day 3 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py 6factorial.py 7swap.py 8smallest.py 9less100.py 10square.py 11nestedifelse.py 12greatestnested.py 13smallestlogical.py 14swapnover.py 15seriesof3.py tempCodeRun... > Day 4 README.md > OUTLINE > TIMELINE C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Day 3 > 14swapnover.py > ...
1 x = int(input("Enter the value of x?"))
2 y = int(input("Enter the value of y?"))
3 print("before swapping numbers x and y: %d %d\n" %(x,y))
4 #swapping without using third variable#
5 x = x + y
6 y = x - y
7 x = x - y
8 print("After swapping numbers x and y: %d %d\n" %(x,y))
```

Enter first number : 0
Enter second number : 21
Enter third number : 12
0 is the smallest of three numbers.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 3\14swapnover.py"
Enter the value of x?45
Enter the value of y?54
before swapping numbers x and y: 45 54
After swapping numbers x and y: 54 45

In 8, Col 59 Spaces: 4 UTF-8 CRLF Python Go Live

File Edit Selection View Go Run Terminal Help • 15seriesof3.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER ... OPEN EDITORS > INTERNSHIP-OF-PYTHON... screenshots.docx slicefn.py tuple.py variables and comm... Day 3 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py 6factorial.py 7swap.py 8smallest.py 9less100.py 10square.py 11nestedifelse.py 12greatestnested.py 13smallestlogical.py 14swapnover.py 15seriesof3.py tempCodeRun... > Day 4 README.md > OUTLINE > TIMELINE C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Day 3 > 15seriesof3.py > ...
1 # Python program to print all EVEN numbers within an interval
2 x = int(input("Enter the value of x?"))
3 y = int(input("Enter the value of y?"))
4 if x%2==0:
5     for num in range(x, y + 2, 3):
6         print(num)
7     else:
8         for num in range(x+1, y + 2, 3):
9             print(num)
```

Enter the value of x?0
Enter the value of y?30
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30

In 9, Col 5 Tab Size: 4 UTF-8 CRLF Python Go Live

File Edit Selection View Go Run Terminal Help • 15seriesof3.py - Internship-of-Python-Django - Visual Studio Code

EXPLORER ... OPEN EDITORS > INTERNSHIP-OF-PYTHON... screenshots.docx slicefn.py tuple.py variables and comm... Day 3 1avg.py 2evenodd.py 3leapyear.py 4positive.py 5greatest.py 6factorial.py 7swap.py 8smallest.py 9less100.py 10square.py 11nestedifelse.py 12greatestnested.py 13smallestlogical.py 14swapnover.py 15seriesof3.py tempCodeRun... > Day 4 README.md > OUTLINE > TIMELINE C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Day 3 > 15seriesof3.py > ...
1 # Python program to print all EVEN numbers within an interval
2 x = int(input("Enter the value of x?"))
3 y = int(input("Enter the value of y?"))
4 if x%2==0:
5     for num in range(x, y + 2, 3):
6         print(num)
7     else:
8         for num in range(x+1, y + 2, 3):
9             print(num)
```

Enter the value of x?0
Enter the value of y?30
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30

In 9, Col 5 Tab Size: 4 UTF-8 CRLF Python Go Live

- **Task of Day 5:** here is some examples of programs to understand the object-oriented programming concepts in python.

1.py:

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows files in the current workspace, including `1.py`, `2.py`, `3.py`, `4.py`, `5.py`, `6.py`, `7.py`, and `Python - Get Sta...`. The `1.py` file is open in the editor.
- Editor:** Displays the following Python code:

```
Day 5 > 1.py > ...
1 class MyClass:
2     def func1(self):
3         print('have a wonderful Day !')
4
5     def func2(self, name):
6         print("Name is : "+name)
7
8     myc = MyClass()
9
10 myc.func1()
11
12 myc.func2("Vishal Prajapati")
```
- Terminal:** Shows the command line output:

```
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 5\1.py"
have a wonderful Day !
Name is : Vishal Prajapati

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>
```
- Status Bar:** Shows the following information: Ln 13, Col 12, Spaces: 4, UTF-8, CRLF, Python, Go Live, and system icons for battery, signal, and network.

2.py:

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view of files and folders. The "INTERNSHIP-OF-PYTHON..." folder contains "Day 1", "Day 2", "Day 3 and 4", "Day 5", "Day 6", "Day 7", and "basic django pro...".
- Open Editors:** Multiple tabs are open, with "2.py" being the active editor. The code in "2.py" is as follows:

```
1 class MyClass():
2     def func1(self, n1, n2):
3         ans = n1+n2
4         print('Ans is :', ans)
5
6 myc = MyClass()
7
8 myc.func1(10, 20)
```

- Terminal:** The terminal window shows the output of running the script:

```
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 5\2.py"
Ans is : 30

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>
```
- Status Bar:** Shows the current file is "2.py", the line number is 9, column 18, and the status bar includes "Spaces: 4", "UTF-8", "CRLF", "Python", "Go Live", and system icons.

3.py:

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure under "INTERNSHIP-OF-PYTHON-Django". The "Day 5" folder contains files 1.py through 7.py, and a README.md file.
- Code Editor:** The current file is 3.py, which defines a class Myclass with an __init__ method and a func1 method that prints the sum of n1 and n2. A variable myc is created with parameters 88 and 79, and its func1 method is called.
- Terminal:** The terminal shows the command "python -u "c:/Users/visha/Documents/GitHub/Internship-of-Python-Django/Day 5/3.py"" being run, followed by the output "Ans is : 167".
- Status Bar:** Shows the Python version as "Python 3.9.4 64-bit".

4.py:

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a project structure under "INTERNSHIP-OF-PYTHON-Django". The "Day 5" folder contains files 1.py through 7.py, and a README.md file.
- Code Editor:** The current file is 4.py, which demonstrates inheritance. It defines a Parent class with an __init__ method that prints "Calling parent constructor". It also defines a parentMethod. A Child class inherits from Parent and overrides the __init__ method to print "Calling the constructor". It also defines a childMethod. An instance c of Child is created, and its methods are called in sequence: __init__, childMethod, and parentMethod.
- Terminal:** The terminal shows the command "python -u "c:/Users/visha/Documents/GitHub/Internship-of-Python-Django/Day 5/4.py"" being run, followed by the output:

```

Calling the Constructor
Calling Child method
Calling parent method
  
```

- Status Bar:** Shows the Python version as "Python 3.9.4 64-bit".

5.py:

```

File Edit Selection View Go Run Terminal Help
5.py - Internship-of-Python-Django - Visual Studio Code
OPEN EDITORS
Day 5 > 5.py > ...
1 class MyParentClass1():
2     def method_Parent1(self):
3         print("Parent1 method called")
4
5 class MyParentClass2():
6     def method_Parent2(self):
7         print("Parent2 method called")
8
9 class ChildClass(MyParentClass1, MyParentClass2):
10    def child_method(self):
11        print("Child method")
12
13 c = ChildClass()
14 c.method_Parent1()
15 c.method_Parent2()
16 c.child_method()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 5\5.py"
Parent1 method called
Parent2 method called
Child method

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

```

6.py:

```

File Edit Selection View Go Run Terminal Help
6.py - Internship-of-Python-Django - Visual Studio Code
OPEN EDITORS
Day 5 > 6.py > ...
1 class ParentClass():
2     def func1(self):
3         print("Parent Method Called")
4
5 class ChildClass(ParentClass):
6     def func1(self):
7         print("Child method Called")
8
9 c = ChildClass()
10 c.func1()

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 5\6.py"
Child method Called

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>

```

7.py:

The screenshot shows a Visual Studio Code (VS Code) interface running on a Windows 10 operating system. The code editor displays a file named '7.py' which contains the following Python code:

```
Day 5 > 7.py > ...
1   print("Parent method called")
2
3 class ChildClass(ParentClass):
4     def func1(self):
5         print("Child method called")
6
7 c = ChildClass()
8 c.func1()
9
10 p = ParentClass()
11 p.func1()
```

The terminal window below the code editor shows the output of running the script:

```
Microsoft Windows [Version 10.0 19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha\Documents\GitHub\Internship-of-Python-Django>python -u "c:\Users\visha\Documents\GitHub\Internship-of-Python-Django\Day 5\7.py"
Child method called
Parent method called
```

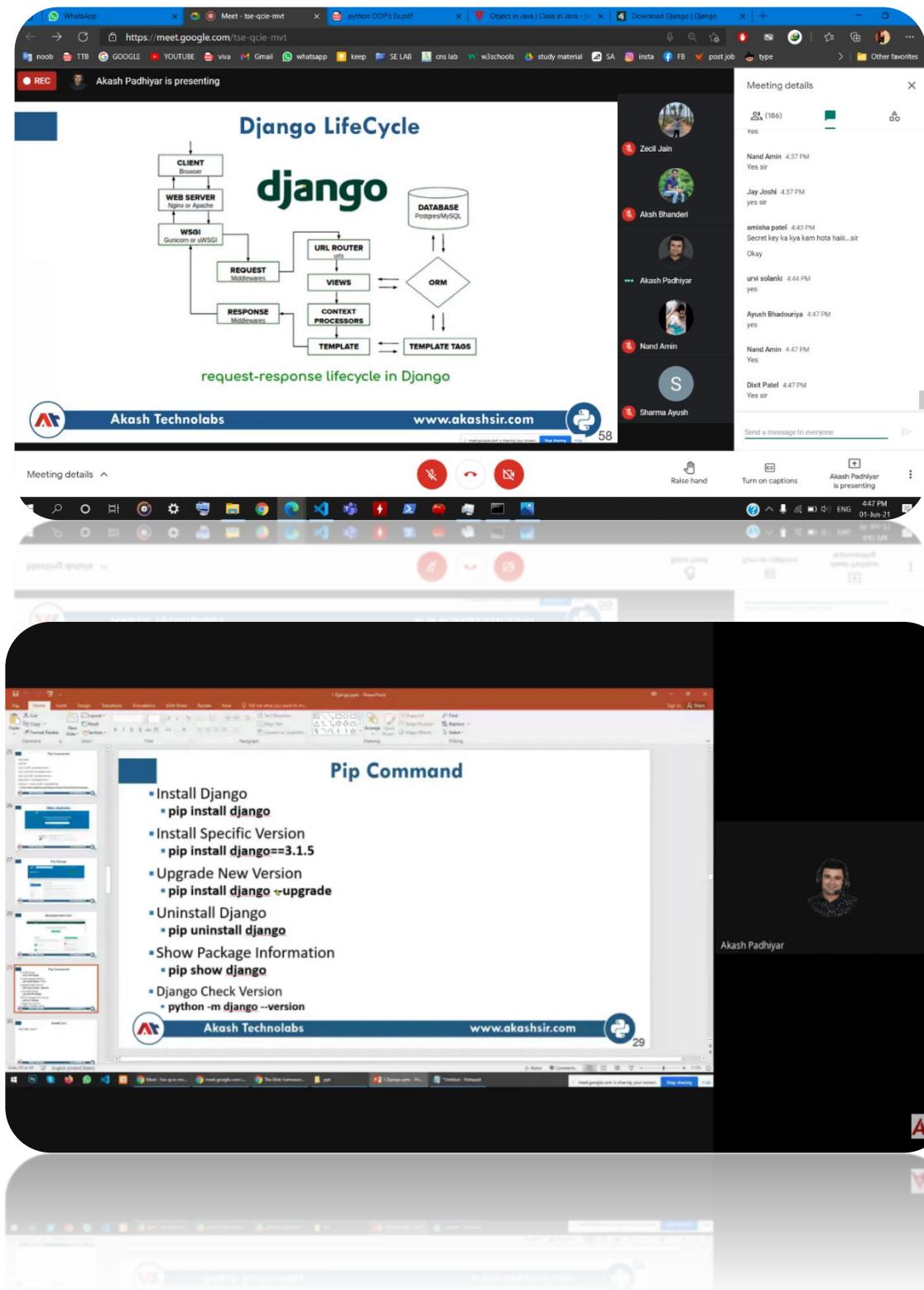
The status bar at the bottom of the VS Code window indicates the following information:

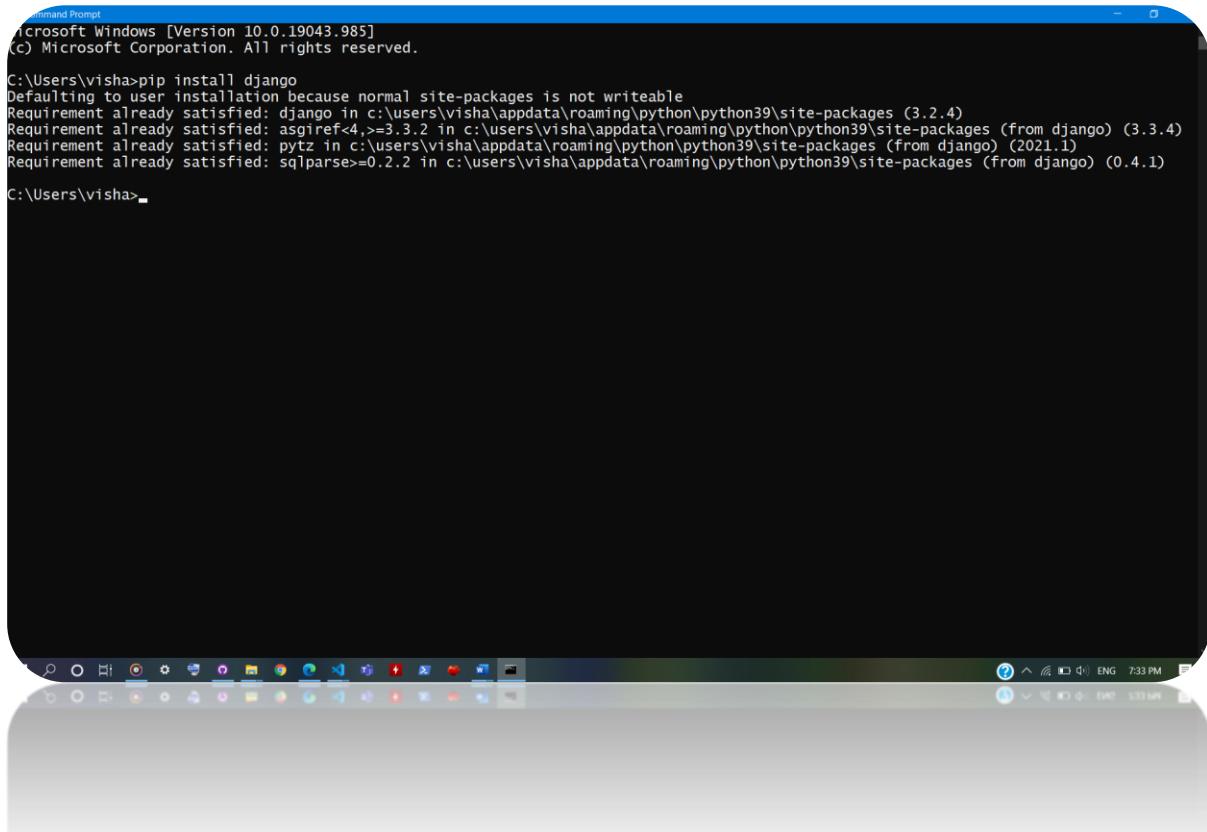
- File: main*
- Python 3.9.4 64-bit
- 0 △ 0
- Ln 18, Col 10 Spaces: 4 UTF-8 CRLF Python Go Live
- 7:52 AM

The taskbar at the bottom of the screen shows several open application icons, including a browser, file explorer, and command prompt.

- **Task of Day 6:**

Django Framework Installation and Initial Project in Vs Code:





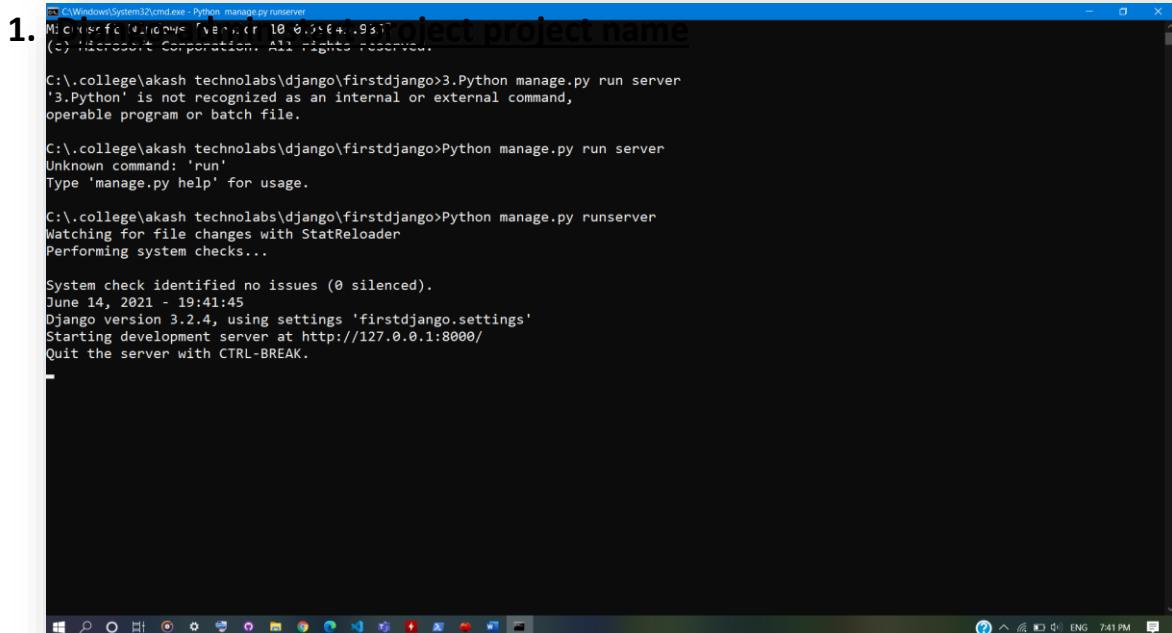
```
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\Users\visha>pip install django
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: django in c:\users\visha\appdata\roaming\python\python39\site-packages (3.2.4)
Requirement already satisfied: asgiref<4,>=3.3.2 in c:\users\visha\appdata\roaming\python\python39\site-packages (from django) (3.3.4)
Requirement already satisfied: pytz in c:\users\visha\appdata\roaming\python\python39\site-packages (from django) (2021.1)
Requirement already satisfied: sqlparse>=0.2.2 in c:\users\visha\appdata\roaming\python\python39\site-packages (from django) (0.4.1)

C:\Users\visha>
```

Steps to Create Django Project :-

Commands –



1. C:\> cd C:\Users\visha\college\akash technolabs\django> Python manage.py runserver
2. C:\college\akash technolabs\django> Python manage.py startproject project_name
3. C:\college\akash technolabs\django> cd project_name
4. C:\college\akash technolabs\django\project_name> Python manage.py runserver

```
C:\Windows\system32\cmd.exe - Python manage.py runserver
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\college> cd C:\Users\visha\college\akash technolabs\django> Python manage.py runserver
Python manage.py runserver
'3.Python' is not recognized as an internal or external command,
operable program or batch file.

C:\college> cd C:\Users\visha\college\akash technolabs\django> Python manage.py startproject project_name
Python manage.py startproject project_name
Unknown command: 'startproject'
Type 'manage.py help' for usage.

C:\college> cd C:\Users\visha\college\akash technolabs\django> Python manage.py runserver
Python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).
June 14, 2021 - 19:41:45
Django version 3.2.4, using settings 'firstdjango.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

File Edit Selection View Go Run Terminal Help

settings.py - firstdjango - Visual Studio Code

EXPLORER ...

OPEN EDITORS

FIRSTDJANGO

firstdjango

- __pycache__
- __init__.py
- asgi.py
- settings.py
- urls.py
- wsgi.py

templates

vishalapp

- __pycache__
- migrations
- __init__.py
- admin.py
- apps.py
- models.py
- tests.py
- urls.py
- views.py

db.sqlite3

manage.py

firstdjango > settings.py

```
1 """
2 Django settings for firstdjango project.
3
4 Generated by 'django-admin startproject' using Django 3.2.4.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/3.2/topics/settings/
8
9 For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/3.2/ref/settings/
11 """
12
13 from pathlib import Path
14
15 # Build paths inside the project like this: BASE_DIR / 'subdir'.
16 BASE_DIR = Path(__file__).resolve().parent.parent
17
18
19 # Quick settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.2/howto/deployment/checklist/
20
21
22 # SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-ccyaz=i@r5yt5v9-rs@(_m_vn6qylloz5#^&2(hpe6h&*=jigs'
23
24
25 # SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True
26
27
28 ALLOWED_HOSTS = []
29
30
31 # Application definition
```

Python extension is now installed. Some features might not be available until a notebook or interactive window session is restarted.

Source: Jupyter (Extension)

Ln 43, Col 1 Spaces: 4 UTF-8 CRLF Python

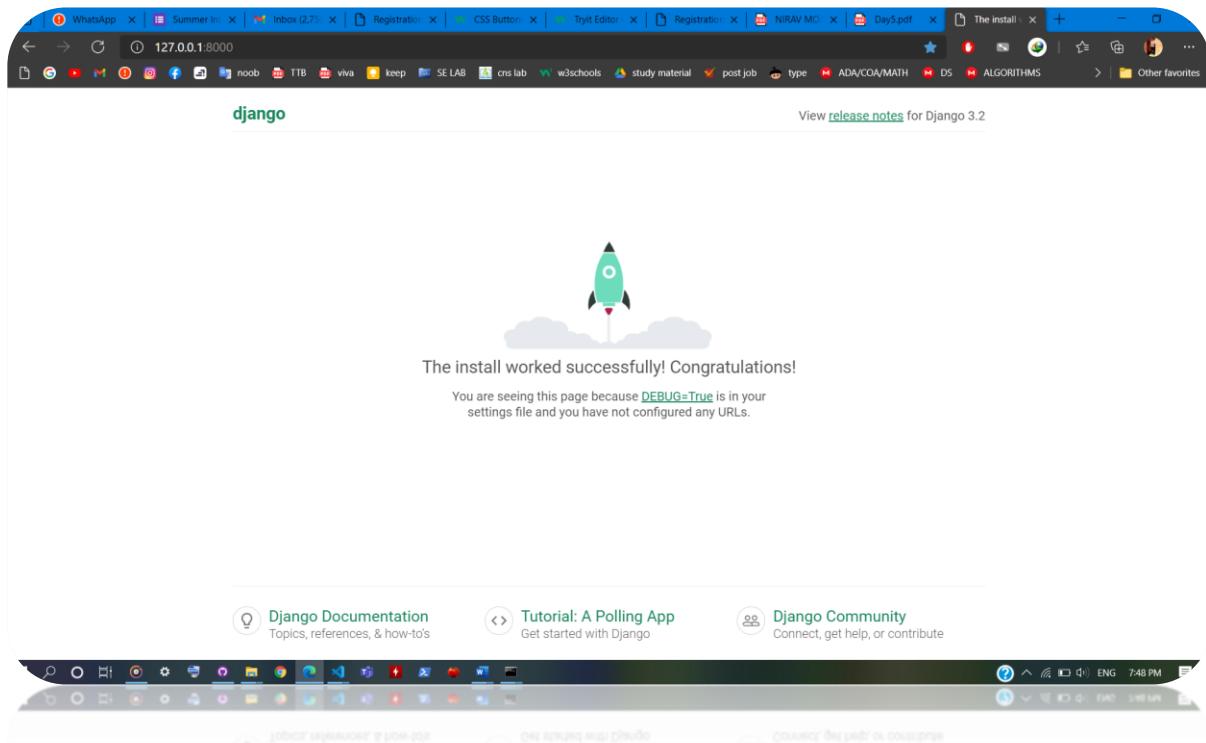
Python 3.9.4 64-bit 0 △ 0

File Explorer Home Insert Find Replace Search Open Recent

File Explorer Home Insert Find Replace Search Open Recent

2. python manage.py migrate

3. Python manage.py run server



Project setup file :-

File Edit Selection View Go Run Terminal Help settings.py - firstdjango - Visual Studio Code

OPEN EDITORS views.py urls.py vishalapp settings.py X urls.py firstdjango __init__.py

```

1 """
2 Django settings for firstdjango project.
3
4 Generated by 'django-admin startproject' using Django 3.2.4.
5
6 For more information on this file, see
7 https://docs.djangoproject.com/en/3.2/topics/settings/
8
9 Follow link (ctrl + click) settings and their values, see
10 https://docs.djangoproject.com/en/3.2/ref/settings/
11 """
12
13 from pathlib import Path
14
15 # Build paths inside the project like this: BASE_DIR / 'subdir'.
16 BASE_DIR = Path(__file__).resolve().parent.parent
17
18 # Quick-start development settings - unsuitable for production
19 # See https://docs.djangoproject.com/en/3.2/howto/deployment/checklist/
20
21 # SECURITY WARNING: keep the secret key used in production secret!
22 SECRET_KEY = 'django-insecure-ccyaz-i@r5yt5v9-rs@m_vn6qylloz5#^&2(hpe6h&*jigs'
23
24 # SECURITY WARNING: don't run with debug turned on in production!
25 DEBUG = True
26
27 ALLOWED_HOSTS = []
28
29
30
31 # Application definition

```

Python 3.9.4 64-bit 0 0 0

Ln 15, Col 54 Spaces: 4 UTF-8 CRLF Python ⌂ ⌂

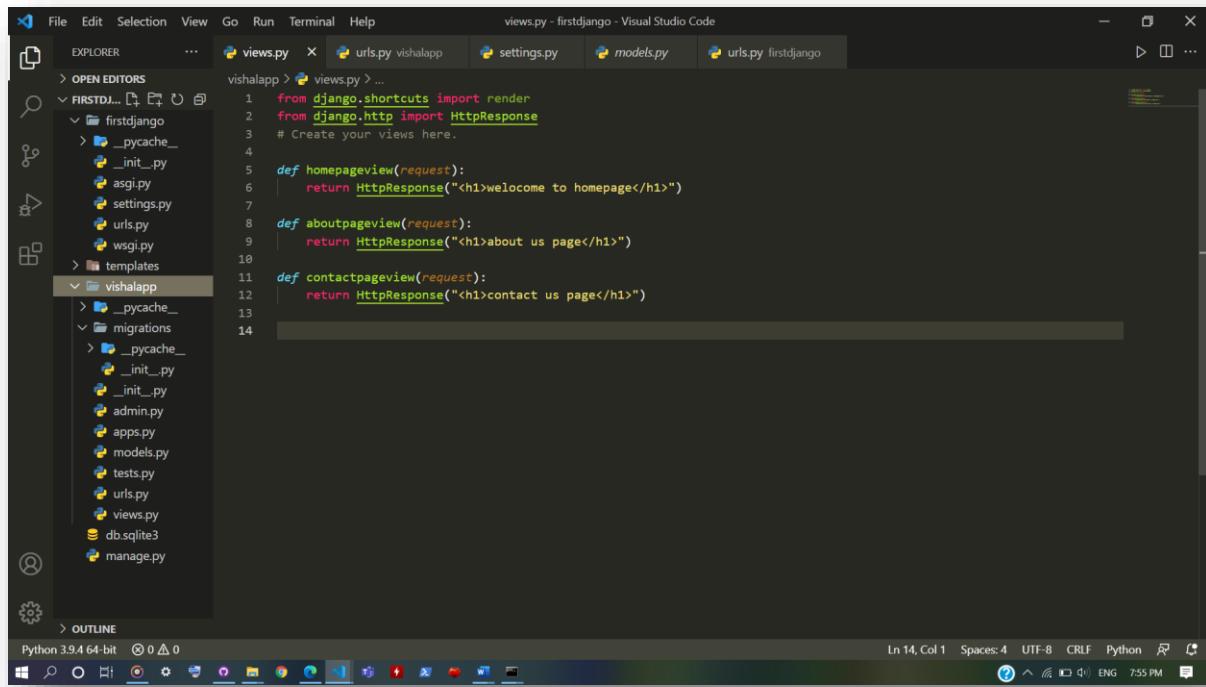
24 | Page

Task for Day 7:

Creating an app basic work on Django Project:

1. Create app

“python manage.py startapp myapp”



The screenshot shows the Visual Studio Code interface with the following details:

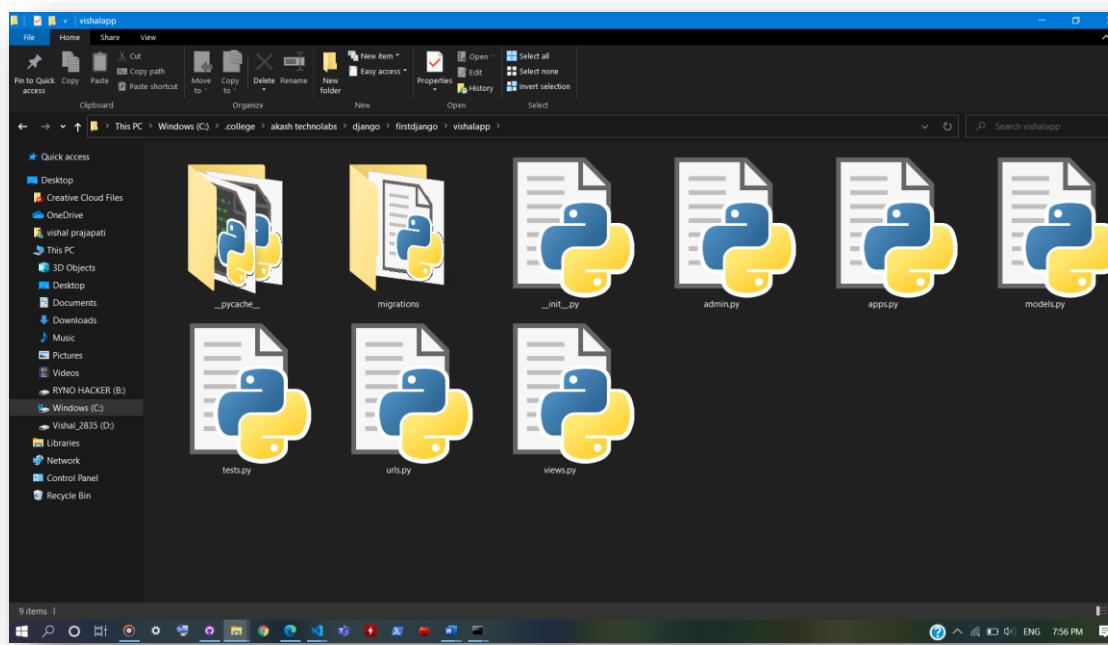
- File Explorer:** Shows the project structure under "FIRSTDJ...". The "vishalapp" folder is expanded, showing files like __pycache__, migrations, __pycache__, _init_.py, admin.py, apps.py, models.py, tests.py, urls.py, and views.py.
- Code Editor:** The "views.py" file is open, containing the following Python code:

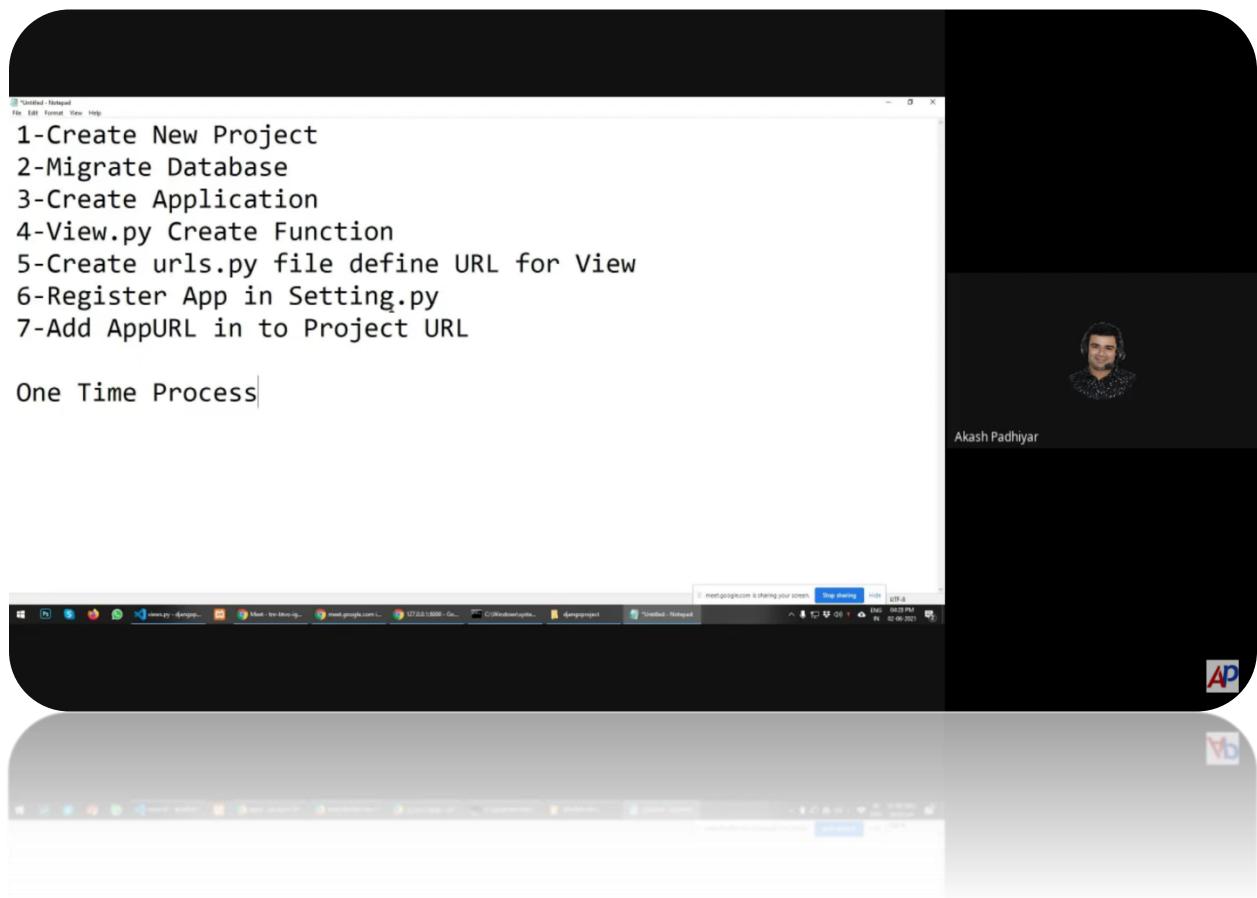
```

1  from django.shortcuts import render
2  from django.http import HttpResponseRedirect
3  # Create your views here.
4
5  def homepageview(request):
6      return HttpResponseRedirect("<h1>welcome to homepage</h1>")
7
8  def aboutpageview(request):
9      return HttpResponseRedirect("<h1>about us page</h1>")
10
11 def contactpageview(request):
12     return HttpResponseRedirect("<h1>contact us page</h1>")
13
14

```

- Status Bar:** Shows "Python 3.9.4 64-bit", "Ln 14, Col 1", "Spaces: 4", "UTF-8", "CRLF", "Python", and other system information.



It's all one time process:-

After creating an app we need to code in views.py

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

```
def homepageview(ewquest):
    return HttpResponse("Welcome to Django Project")
```

Code of urls.py

```
from django.urls import path
from .import views
```

```
urlpatterns = [
    path("", views.homepageview, name="home"),]
```

Then in Project1 folder in urls.py

We need to define the path of our app

Project1 urls.py code

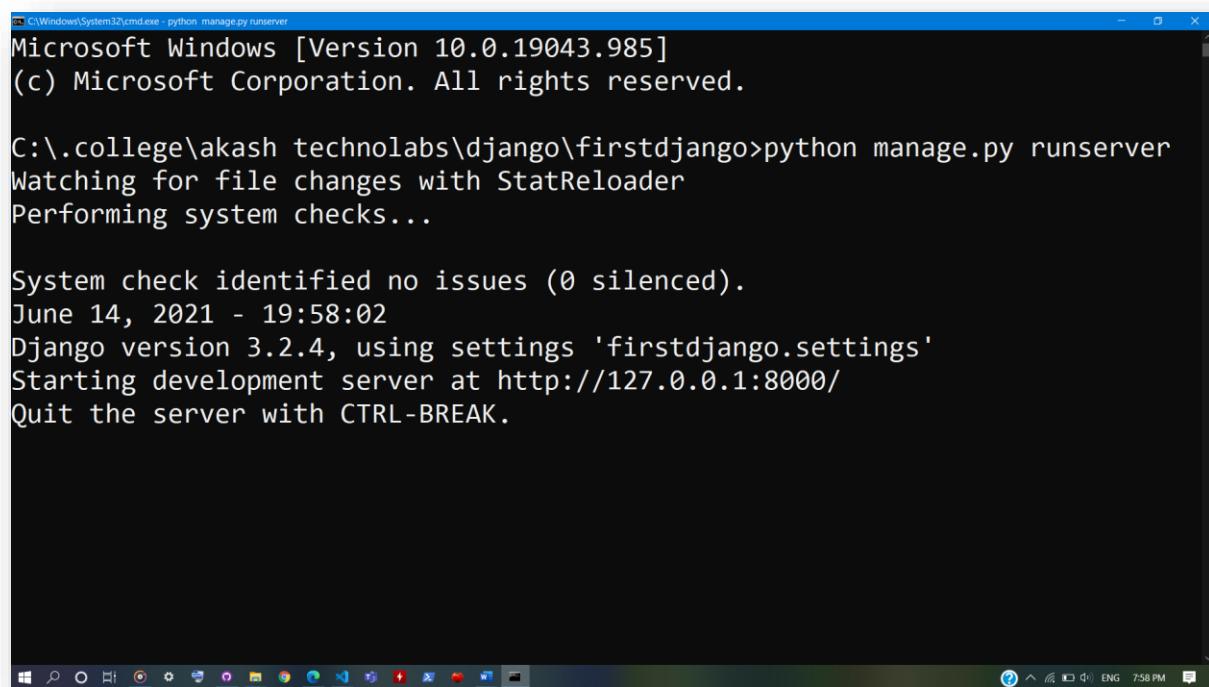
```
from django.contrib import admin
from django.urls import path ,include
urlpatterns = [
    path('admin/', admin.site.urls),
    path("",include('myapp.urls')),]
```

Output:

Project is live –

By default it will run on the Port number 8000

http://127.0.0.1:8000/



```
C:\Windows\System32\cmd.exe - python manage.py runserver
Microsoft Windows [Version 10.0.19043.985]
(c) Microsoft Corporation. All rights reserved.

C:\.college\akash technolabs\django\firstdjango>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
June 14, 2021 - 19:58:02
Django version 3.2.4, using settings 'firstdjango.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

Now try by adding more Views in these Project

Views.py

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

def homepageview(request):
    return HttpResponse("Welcome to homepage")

def aboutpageview(request):
    return HttpResponse("About us Page")

def contactpageview(request):
    return HttpResponse("Contact us Page")
```

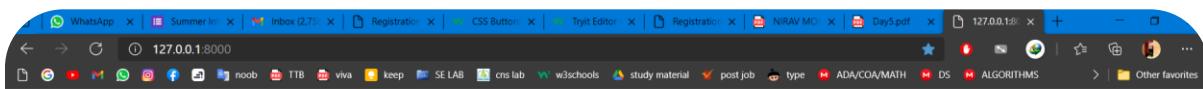
Urls.py

```
from django.urls import path
from . import views

urlpatterns = [
    path("", views.homepageview, name="home"),
    path('about', views.aboutpageview, name="about"),
    path('contact', views.contactpageview, name="contact"),
]
```

AKASH TECHNOLABS INTERNSHIP REPORT

Output: -

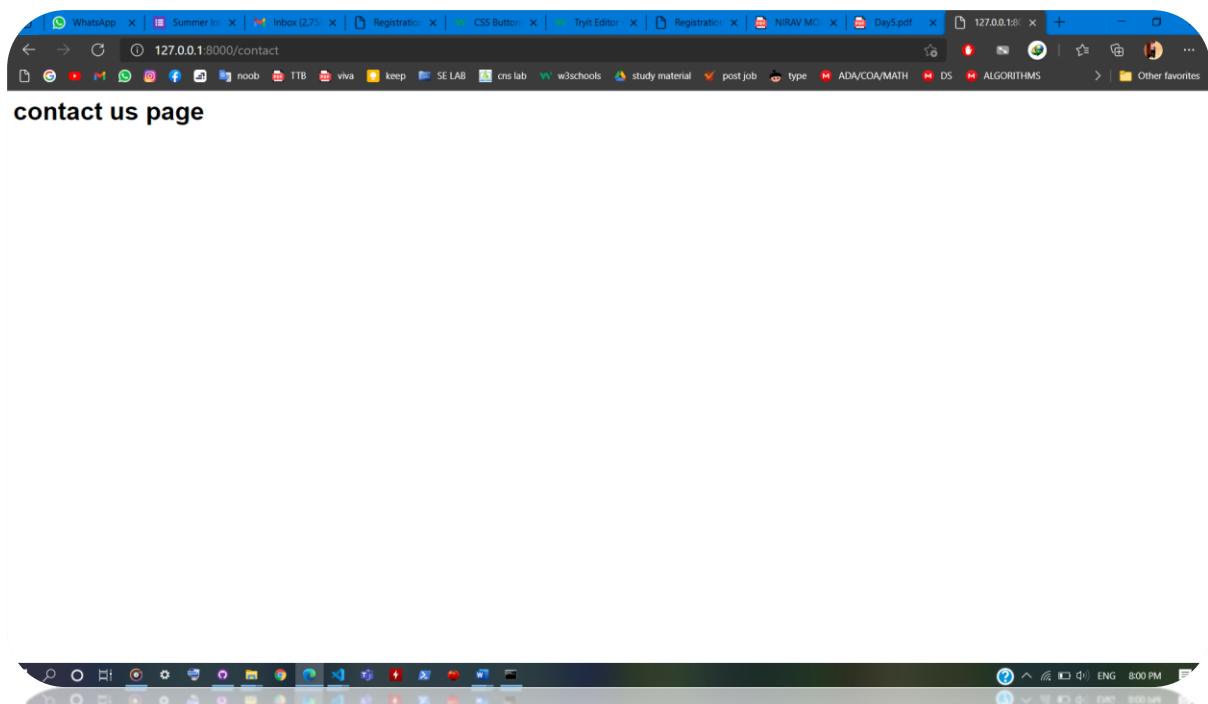


welocome to homepage



about us page





For creating a super user

Use command – `python manage.py createsuperuser`

A screenshot of a terminal window titled "Windows\System32\cmd.exe - python manage.py createsuperuser". The window displays the following text:

```
Performing system checks...

System check identified no issues (0 silenced).
June 14, 2021 - 19:58:02
Django version 3.2.4, using settings 'firstdjango.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[14/Jun/2021 19:59:41] "GET / HTTP/1.1" 200 29
[14/Jun/2021 19:59:58] "GET /about HTTP/1.1" 200 22
[14/Jun/2021 20:00:10] "GET /contact HTTP/1.1" 200 24

C:\.college\akash technolabs\django\firstdjango>python manage.py createsuperuser
Username (leave blank to use 'visha'): vishal
Error: That username is already taken.
Username (leave blank to use 'visha'):
```

The terminal window is set against a dark background and has a light blue header bar.

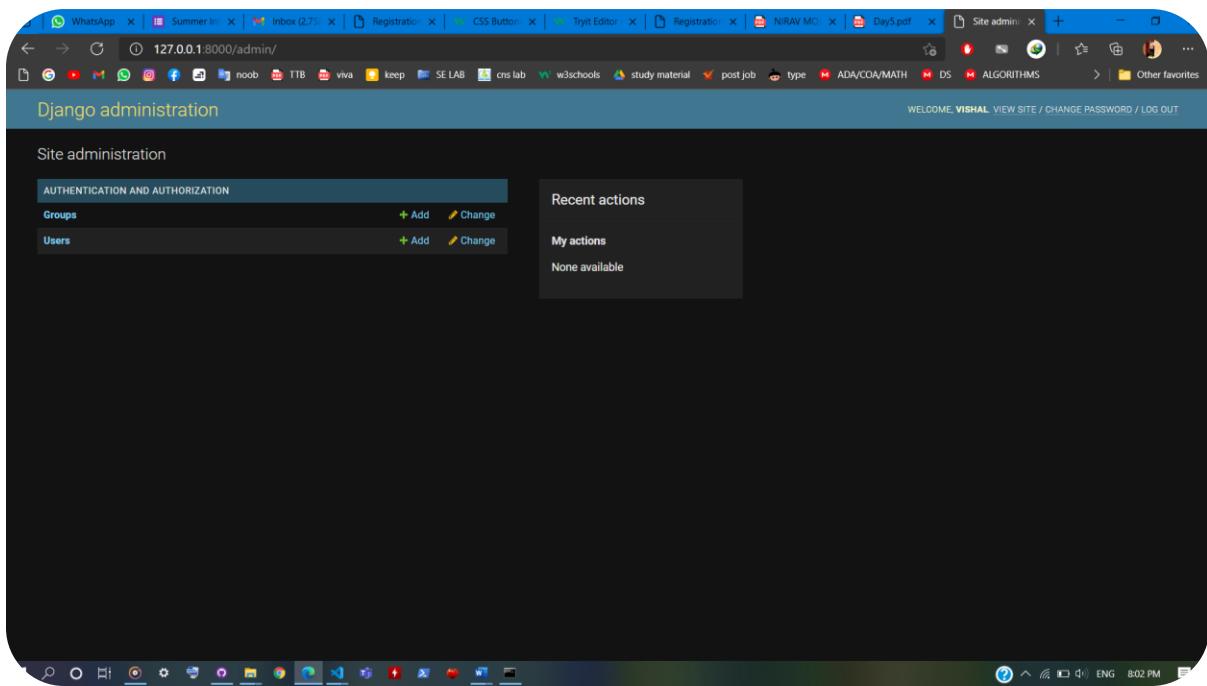
```

File Edit Selection View Go Run Terminal Help urls.py - firstdjango - Visual Studio Code
OPEN EDITORS ... views.py urls.py vishalapp settings.py models.py urls.py firstdjango ...
firstdjango > urls.py > ...
1 """firstdjango URL Configuration
2
3 The `urlpatterns` list routes URLs to views. For more information please see:
4     https://docs.djangoproject.com/en/3.2/topics/http/urls/
5 Examples:
6 Function based views
7     1. Add an import: from my_app import views
8     2. Add a URL to urlpatterns: path('', views.home, name='home')
9 Class-based views
10    1. Add an import: from other_app.views import Home
11    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
12 Including another URLconf
13    1. Import the include() function: from django.urls import include, path
14    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path, include
18
19 urlpatterns = [
20     path('admin/', admin.site.urls),
21     path('', include('vishalapp.urls')),
22 ]

```

Ln 23, Col 1 Spaces: 4 UTF-8 CRLF Python ⌂

Opening an admin panel in Browser: -



AKASH TECHNOLABS INTERNSHIP REPORT

The screenshot shows the Django administration interface for the 'Users' model. The top navigation bar includes links for WhatsApp, Summer Int., Inbox (2,75), Registration, CSS Button, TryIt Editor, Registration, NIRAV MO, Day5.pdf, Select user, and other favorites. The main title is 'Django administration' with a sub-section 'Home > Authentication and Authorization > Users'. On the left, there's a sidebar titled 'AUTHENTICATION AND AUTHORIZATION' with 'Groups' and 'Users' sections, each with an 'Add' button. The main content area is titled 'Select user to change' and contains a search bar. Below it, a table lists one user: 'vishal' with email 'vishalprajapati2835@gmail.com'. The table has columns: USERNAME, EMAIL ADDRESS, FIRST NAME, LAST NAME, and STAFF STATUS (with a green checkmark). To the right of the table is a 'FILTER' sidebar with sections for 'By staff status' (All, Yes, No) and 'By superuser status' (All, Yes, No). At the bottom, there's a note '1 user'.

Task of Day 8

Django Theme: -

How to add templates in a Django project –

Add path to settings.py

```
"""
Django settings for firstdjango project.

Generated by 'django-admin startproject' using Django 3.2.4.

For more information on this file, see
https://docs.djangoproject.com/en/3.2/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/3.2/ref/settings/
"""

from pathlib import Path
import os

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.2/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-ccyaz=i@r)5yt5v9-
rs@(m_vn6qylloz5#^&2(hpe6h&*=jigs'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
```

```
'django.contrib.auth',
'django.contrib.contenttypes',
'django.contrib.sessions',
'django.contrib.messages',
'django.contrib.staticfiles',
'venushanapp',

]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'firstdjango.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [os.path.join(BASE_DIR, 'templates')],  

        'APP_DIRS': True,  

        'OPTIONS': {  

            'context_processors': [  

                'django.template.context_processors.debug',  

                'django.template.context_processors.request',  

                'django.contrib.auth.context_processors.auth',  

                'django.contrib.messages.context_processors.messages',  

            ],  

        },
    },
]

WSGI_APPLICATION = 'firstdjango.wsgi.application'

# Database
# https://docs.djangoproject.com/en/3.2/ref/settings/#databases
```

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
    }
}

# Password validation
# https://docs.djangoproject.com/en/3.2/ref/settings/#auth-password-
validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimi-
larityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthVali-
dator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordVali-
dator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordVa-
lidator',
    },
]

# Internationalization
# https://docs.djangoproject.com/en/3.2/topics/i18n/

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

USE_I18N = True

USE_L10N = True
```

```
USE_TZ = True

# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.2/howto/static-files/

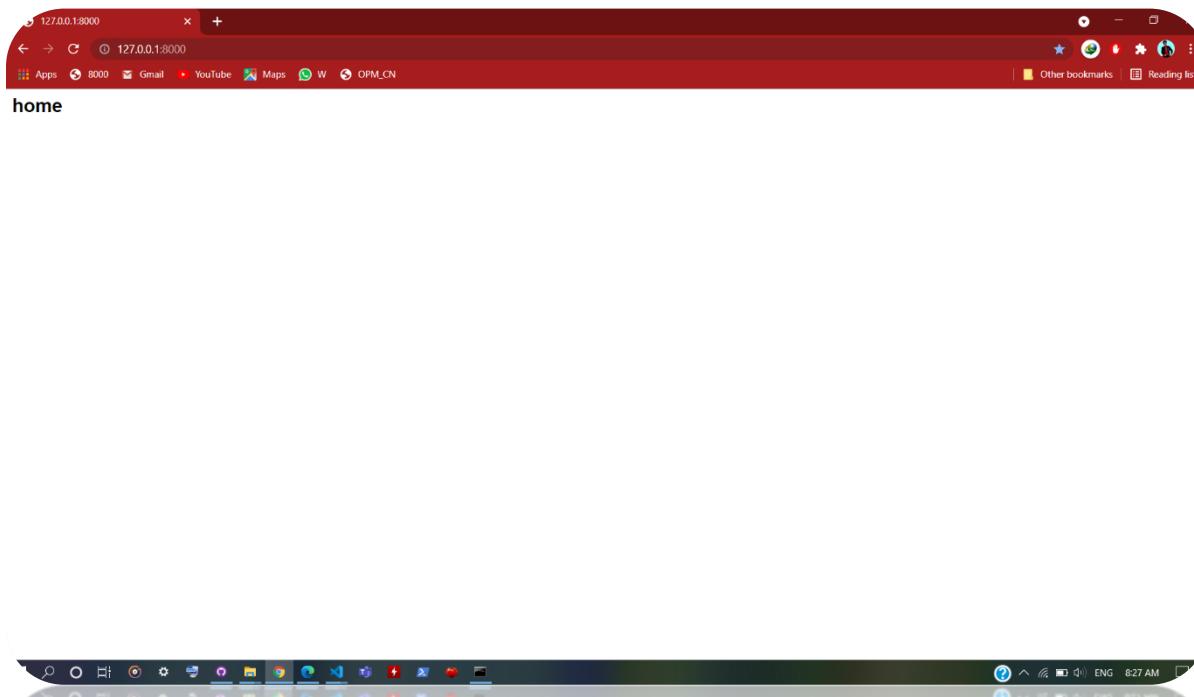
STATIC_URL = '/static/'

STATICFILES_DIRS = [
    os.path.join(BASE_DIR, 'static'),
]

# Default primary key field type
# https://docs.djangoproject.com/en/3.2/ref/settings/#default-auto-field

DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```

And her we Go ready to launch on live server 😊:



AKASH TECHNOLABS INTERNSHIP REPORT



Add navigation between pages: -

Add code in templets Folder in Html files:-

Home.html

```
<h1> Home </h1>
```

```
<a href="/"> Home </a>
```

```
<a href="/contact"> Contact </a>
```

```
<a href="/about"> About </a>
```

Contact.html

```
<h1>Contact</h1>
```

```
<a href="/"> Home </a>
```

```
<a href="/contact"> Contact </a>
```

```
<a href="/about"> About </a>
```

About.html

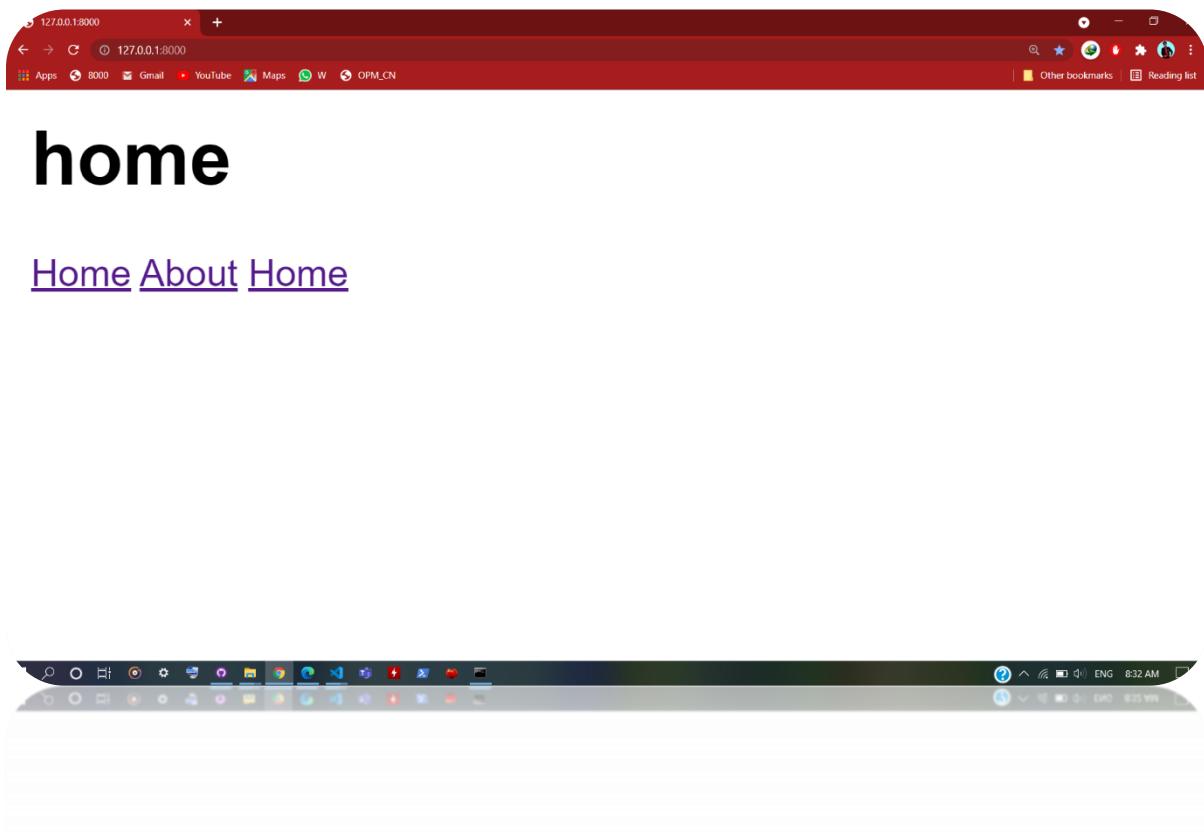
```
<h1>About</h1>
```

```
<a href="/"> Home </a>
```

```
<a href="/contact"> Contact </a>
```

```
<a href="/about"> About </a>
```

Output:-



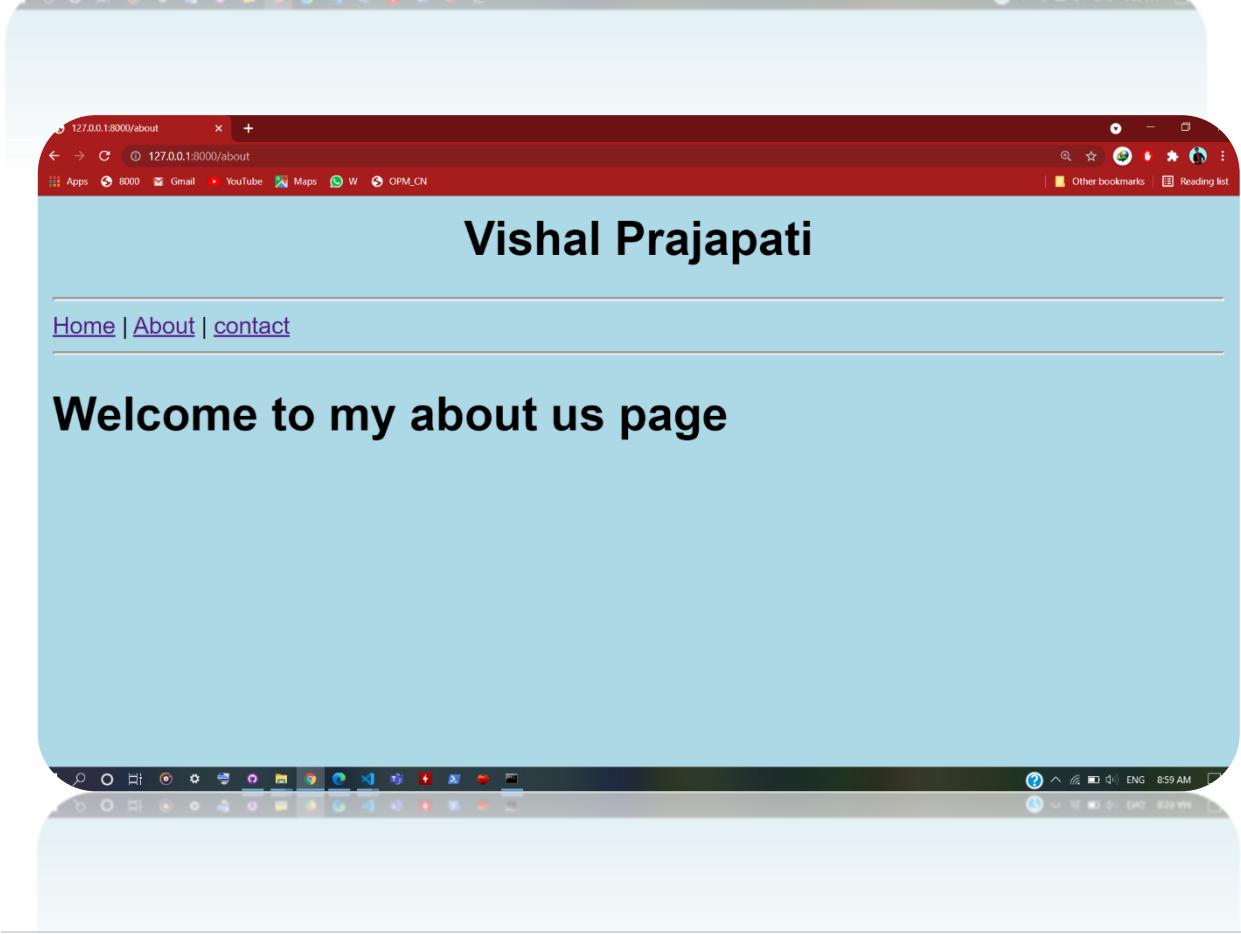
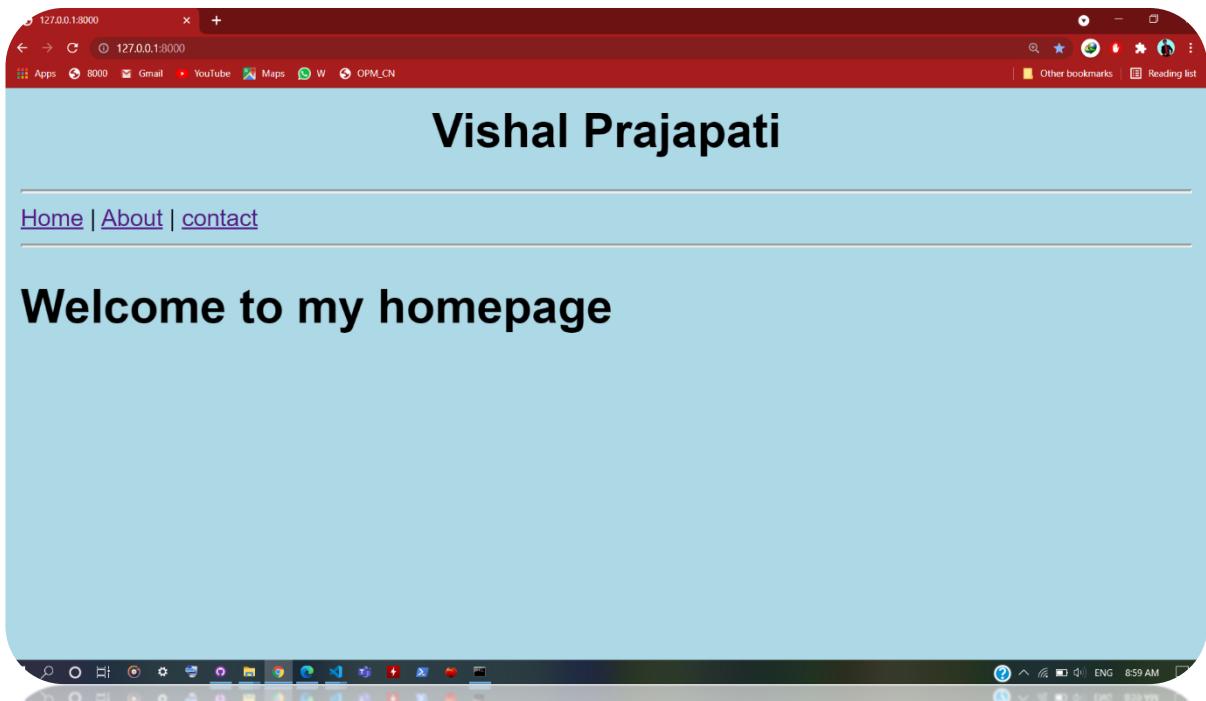
Layout defining:-

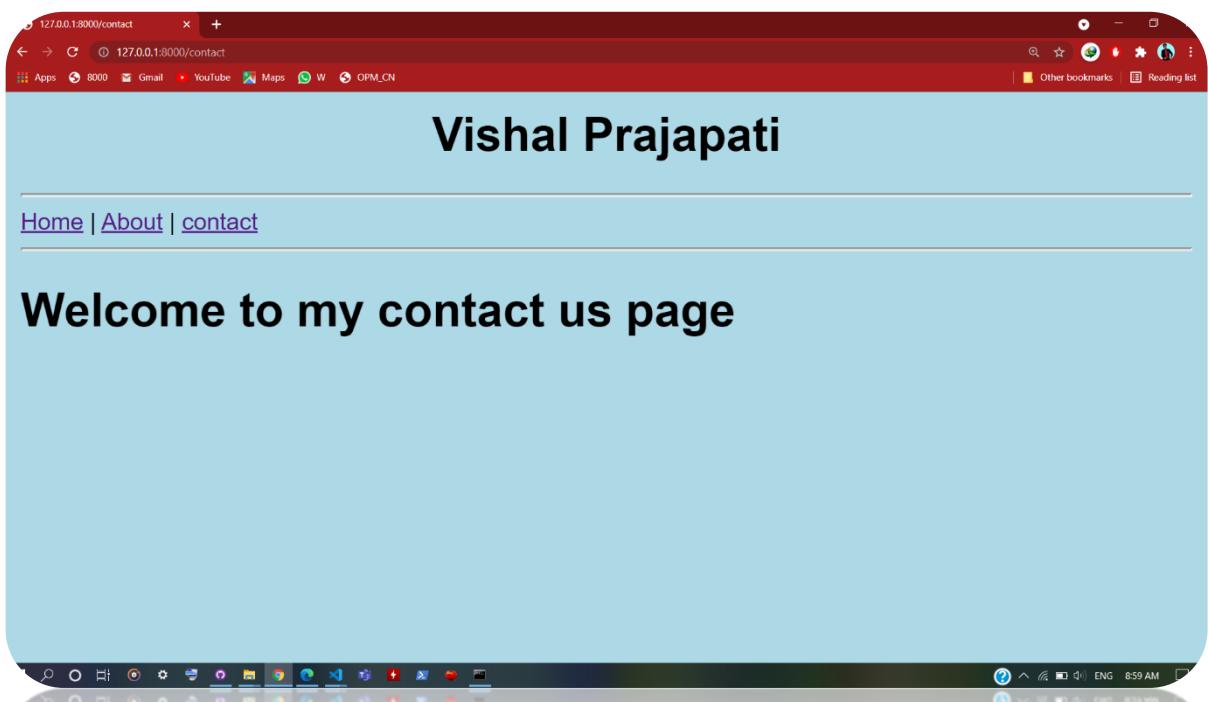
Base.html

```
<html>

<body bgcolor="lightblue">
<center><h1> Vishal Prajapati</h1> </centre>
<hr/><a href="/">Home </a> | <a href="/">About</a> | <a href="/">Contact</a><hr/>
{%
    block content%
}
{%
    endblock %
}
</html>
```

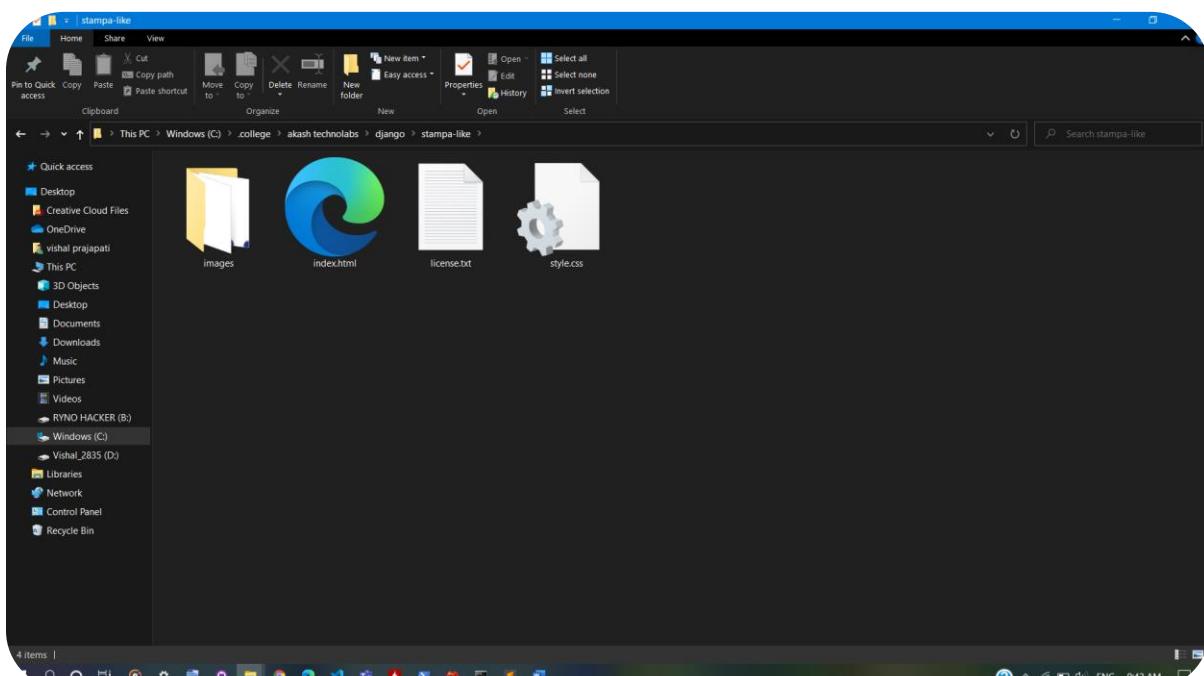
Output :-





How to Add a theme in Django Project? –

Step 1 – Download basic theme and add to a static name folder all the theme data



Step 2 -define its dir in the setting.py

```
STATIC_URL = '/static/'  
  
STATICFILES_DIRS = [  
    os.path.join(BASE_DIR, 'static'),  
]  
  
# Default primary key field type  
  
# https://docs.djangoproject.com/en/3.2/ref/settings/#default-auto-field
```

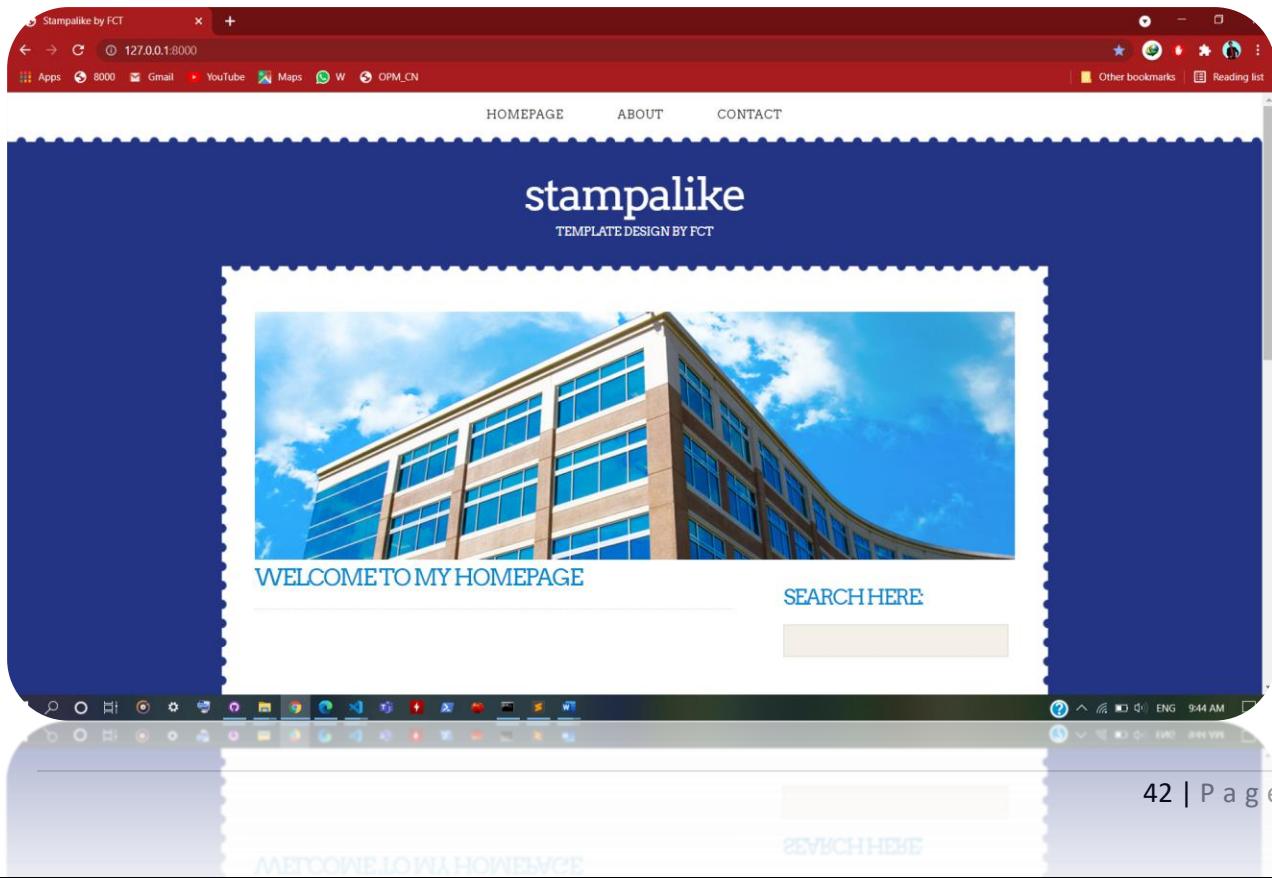
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'

Also add home.html

```
{% load static %}
```

To load the templates in live server

And the Output looks like these:-



We can also add whatever we want to add into these html pages so I have added a form in my contact us page which looks like below:

The screenshot shows a contact us page titled "WELCOME TO MY CONTACT US PAGE". The page features a search bar labeled "SEARCH HERE" and a sidebar with "ALIQUAM TEMPUS" and "CATEGORIES" sections. The main form includes fields for Firstname, Middlename, Lastname, Course, Gender (Male, Female, Other), Phone number, Address, Email (containing "vishal"), Password, Re-type password, and a Submit button.

WELCOME TO MY CONTACT US PAGE

SEARCH HERE

ALIQUAM TEMPUS

Mauris vitae nisl nec metus placerat perdit
est. Phasellus dapibus semper consectetur
hendrerit.

CATEGORIES

Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Umanet non molestie semper
Proin gravida orci porttitor

ARCHIVES

SAVIA

43 | Page

File structure of Django Project looks like :-

The screenshot shows the Visual Studio Code interface with the following details:

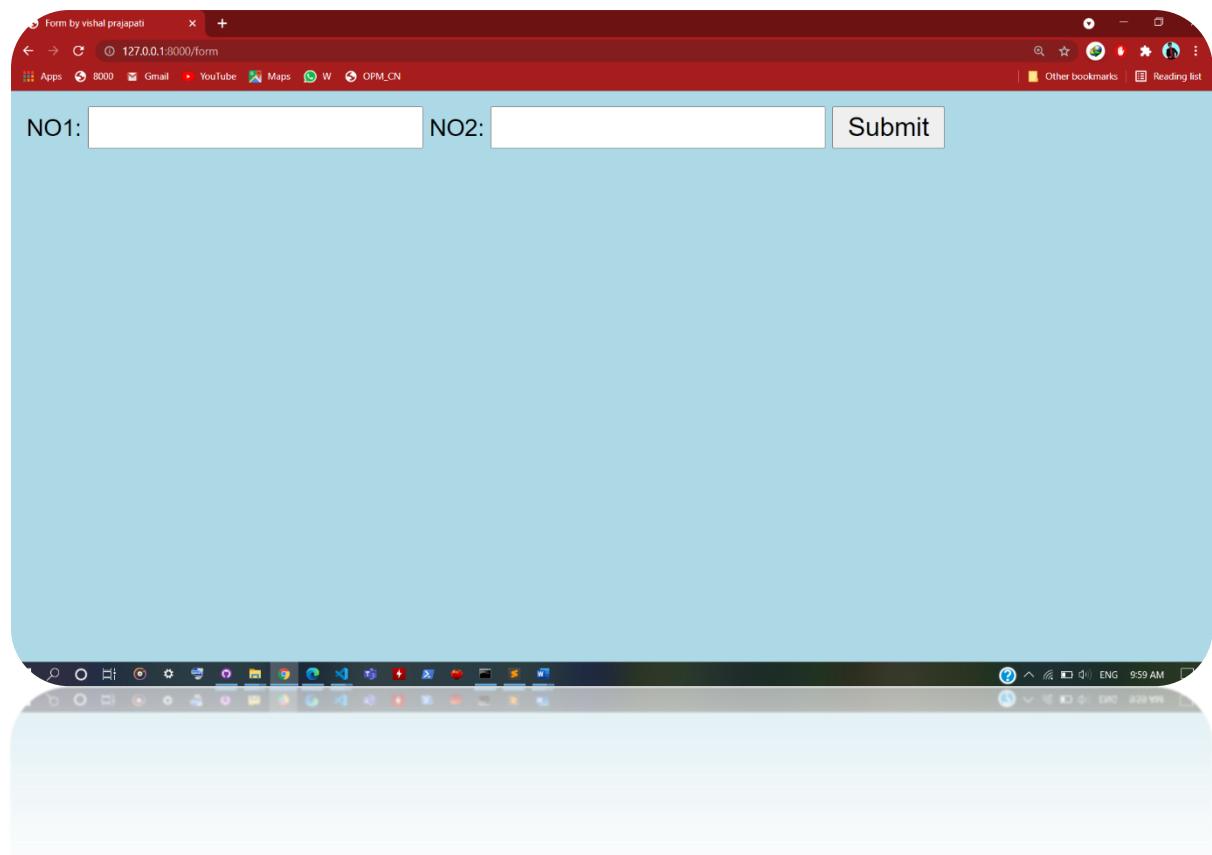
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Editor Bar:** base.html - firstdjango - Visual Studio Code.
- Explorer:** Shows the project structure:
 - OPEN EDITORS: views.py, home.html, contact.html, base.html (highlighted), about.html, urls.py, settings.py, style.css (8).
 - FIRSTDjango folder:
 - images: menu-wrapper..., page-bg.png, page-bgbtm.png, page-bgtop.png, pics01.jpg.
 - templates: about.html, base.html (highlighted), contact.html, home.html.
 - vishalapp folder: __pycache__, migrations, __pycache__.
 - OUTLINE: Python 3.9.4 64-bit, 0 △ 8.
- Code Editor:** The base.html file content is displayed:

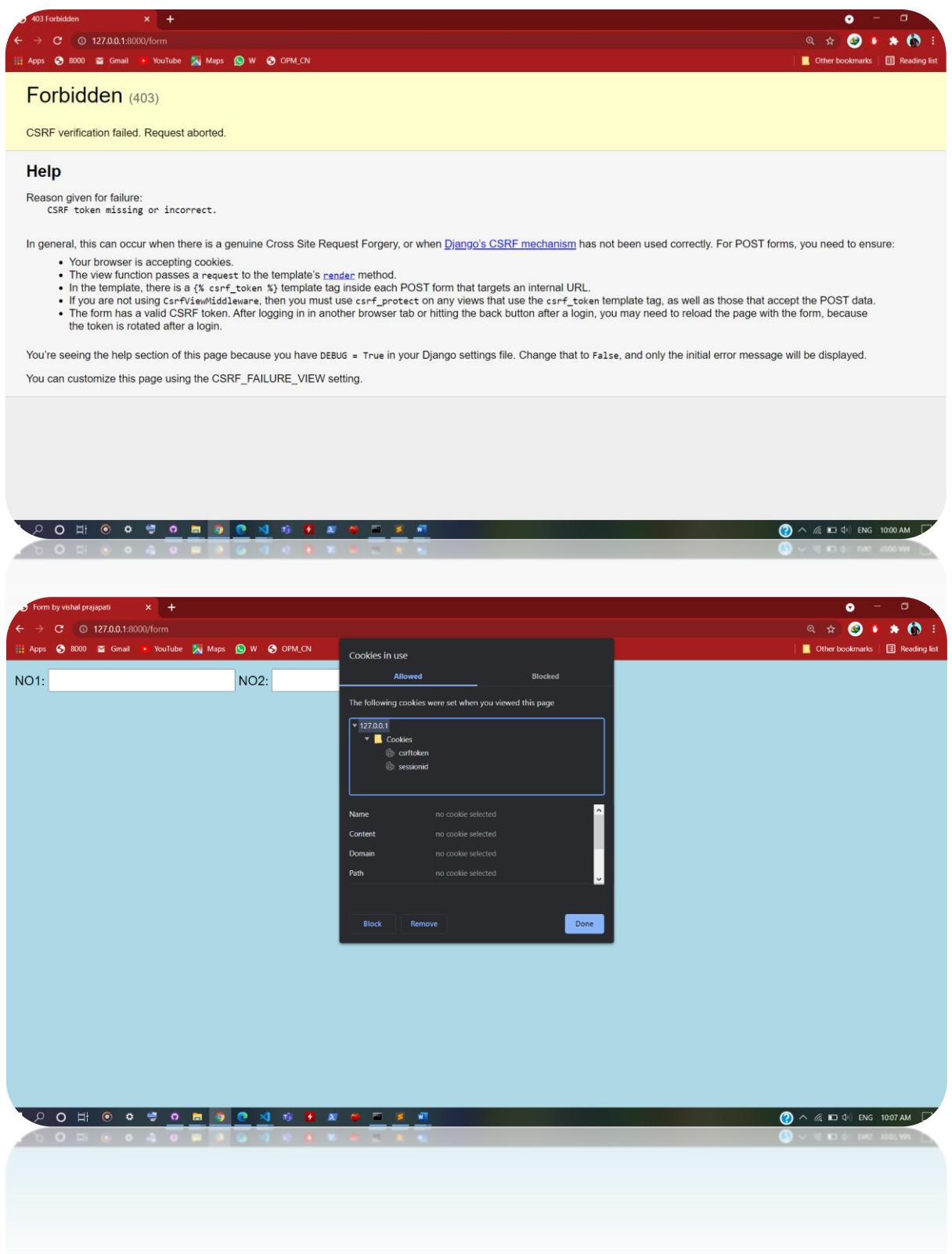
```
1  {% Load static %}  
2  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd"  
3  <!--  
4  Design by Free CSS Templates  
5  http://www.freecsstemplates.org  
6  Released for free under a Creative Commons Attribution 2.5 License  
7  
8  Name : StampALike  
9  Description: A two-column, fixed-width design with dark color scheme.  
10 Version : 1.0  
11 Released : 20120528  
12  
13 -->  
14 <html xmlns="http://www.w3.org/1999/xhtml">  
15 <head>  
16 <meta name="keywords" content="" />  
17 <meta name="description" content="" />  
18 <meta http-equiv="content-type" content="text/html; charset=utf-8" />  
19 <title>Stampalike by FCT</title>  
20 <link href="http://fonts.googleapis.com/css?family=Arvo" rel="stylesheet" type="text/css" />  
21 <link href="http://fonts.googleapis.com/css?family=Coda:400,800" rel="stylesheet" type="text/css" />  
22 <link href="{% static 'style.css' %}" rel="stylesheet" type="text/css" media="screen" />  
23 </head>  
24 <body>  
25 <div id="menu-wrapper">  
26   <div id="menu">  
27     <ul>  
28       <li class="current_page_item">  
29         <a href="/">Homepage</a></li>
```
- Status Bar:** Ln 26, Col 20, Spaces: 4, UTF-8, CRLF, Django HTML, Go Live, 9:45 AM.

- Task for Day 9

Python Get Post Method:**Define myform.html**

```
<html>
  <head>
    <title>Form by vishal prajapati</title>
  </head>
  <body bgcolor="lightblue">
    <form method="post" action='/formprocess'>
    {% csrf_token %}
      NO1: <input type='number' name='txt1' required/>
      NO2: <input type='number' name='txt2' required/>
      <input type="submit"/>
    </form>
  </body>
</html>
```

Output: -



There are no cookies -

How to fix CSRF verification failed?

Views.py

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.

def homepageview(request):
    return render(request,'home.html')

def aboutpageview(request):
    return render(request,'about.html')

def contactpageview(request):
    return render(request,'contact.html')

def myform(request):
    return render(request,'myform.html')

def process(request):
    print("welcome")
    print(request.method)
    print(request.POST)

    a=int(request.POST['txt1'])
    b=int(request.POST['txt2'])
    c= a+b
    print(c)
    return render(request,'ans.html',{'mya':a,'myb':b,'mysum':c})
```

Urls.py

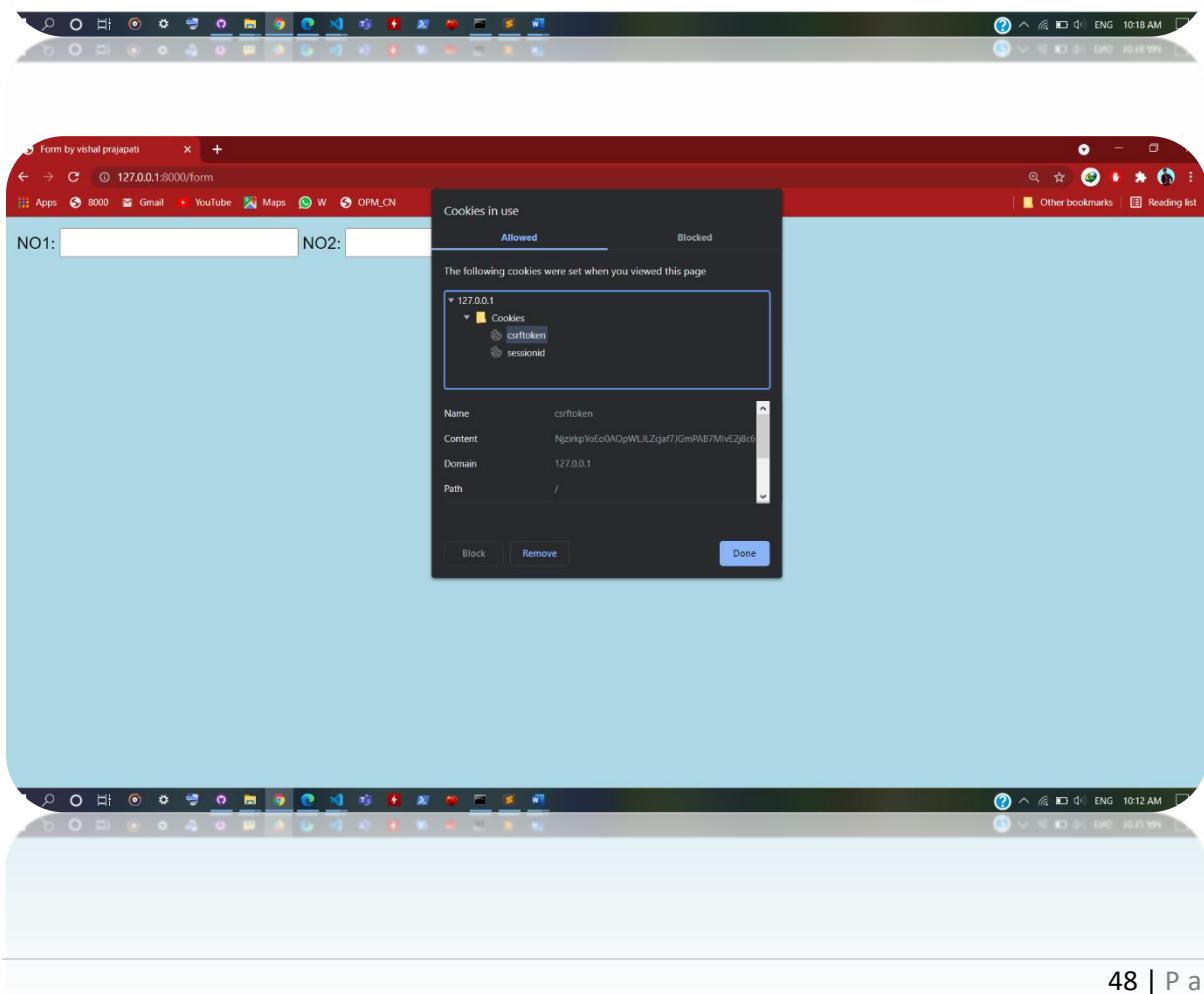
```
from django.urls import path
from . import views

urlpatterns = [
    path('',views.homepageview,name="home"),
    path('about',views.aboutpageview,name="about"),
    path('contact',views.contactpageview,name="contact"),
    path('form',views.myform,name="myform"),
```

```
path('formprocess',views.process,name="process"),  
]
```



This is my Answer



Example:

The screenshot shows a web browser window titled "Form by vishal prajapati". The URL is 127.0.0.1:8000/form. The page contains two input fields labeled "NO1: 23" and "NO2: 12", followed by a "Submit" button.

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "FIRSTDJANGO" and "vishalapp" with files like views.py, ans.html, home.html, contact.html, base.html, myform.html, about.html, urls.py, and settings.py.
- Code Editor:** The "views.py" file is open, containing the following code:

```

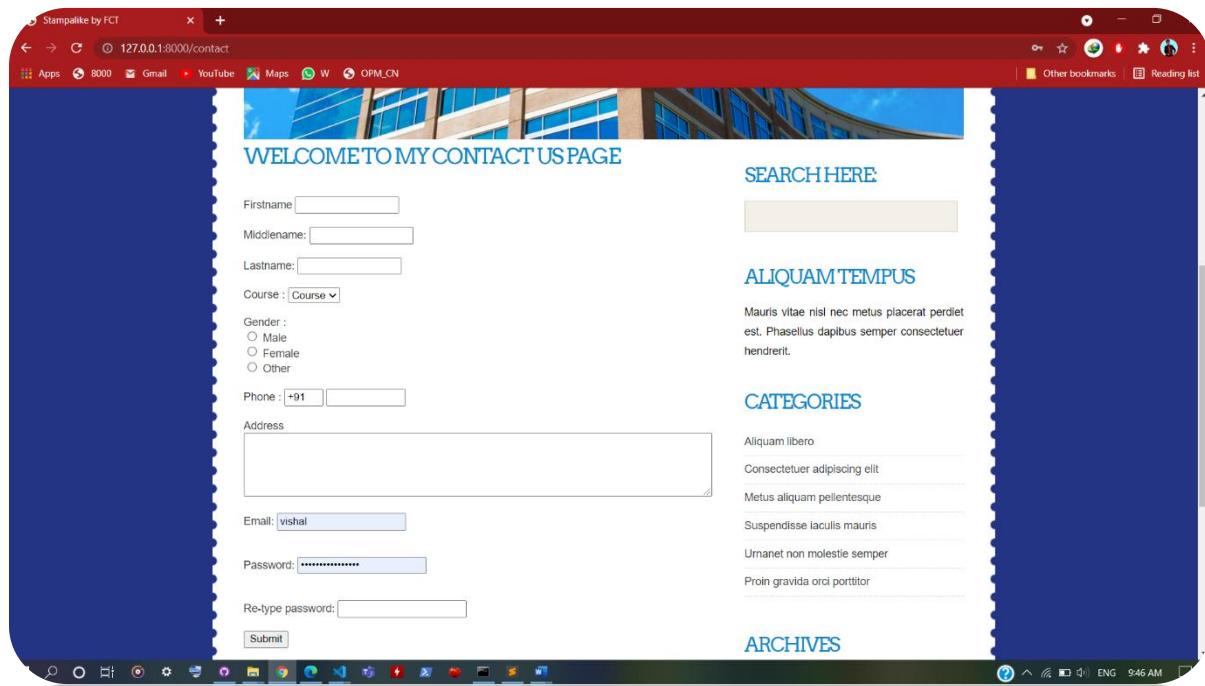
vishalapp > views.py > process
20     print(request.POST)
21
22     a=int(request.POST['txt1'])
23     b=int(request.POST['txt2'])
24     c= a+b
25     print(c)
26     return render(request,'ans.html')

```
- Terminal:** Shows the output of a system check and the start of a Django development server at http://127.0.0.1:8000. It also shows the log for a POST request to /formprocess with parameters txt1: 23 and txt2: 12.

Get output on that ans.html page:-**Views.py**

```
from django.shortcuts import render
from django.http import HttpResponse
# Create your views here.
def homepageview(request):
    return render(request,'home.html')
def aboutpageview(request):
    return render(request,'about.html')
def contactpageview(request):
    return render(request,'contact.html')
def myform(request):
    return render(request,'myform.html')
def process(request):
    print("welcome")
    print(request.method)
    print(request.POST)
    a=int(request.POST['txt1'])
    b=int(request.POST['txt2'])
    c= a+b
    print(c)
    return render(request,'ans.html',{'mya':a,'myb':b,'mysum':c})
```





- **Task of Day 10**

Django Framework CRUD operation: -

By using the admin panel we can make CRUD operation easily

Create table:-

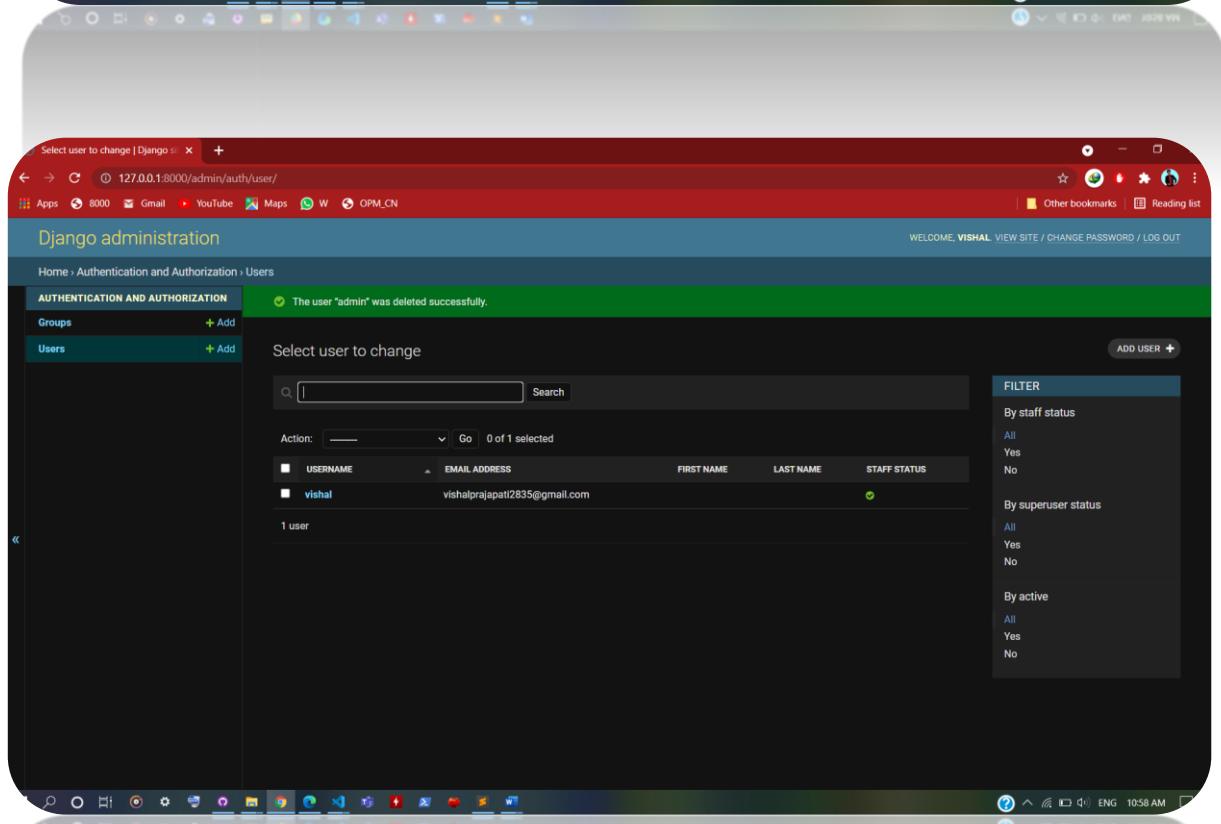
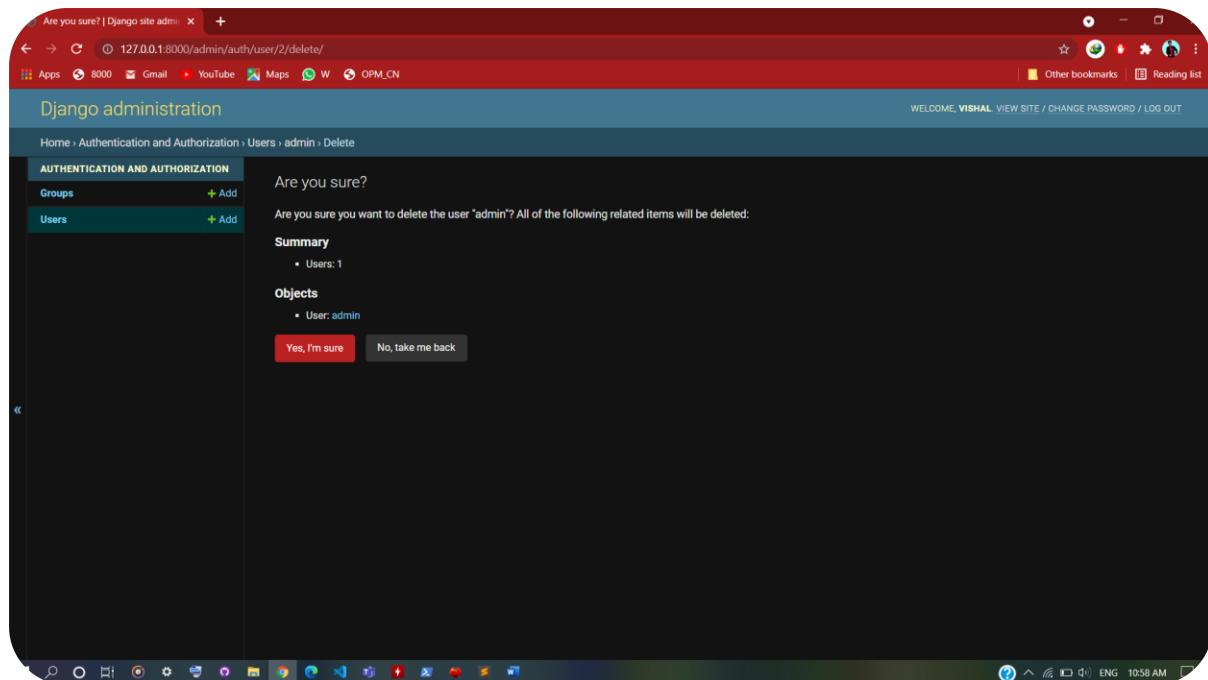
The screenshot shows the Django Admin 'Select user to change' page. The URL is 127.0.0.1:8000/admin/auth/user/. The sidebar on the left shows 'AUTHENTICATION AND AUTHORIZATION' with 'Groups' and 'Users' options. The main area displays a table with one row:

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
vishal	vishal@prajapati2835@gmail.com			✓

Below the table, it says '1 user'. On the right, there's a 'FILTER' sidebar with sections for 'By staff status' (All, Yes, No), 'By superuser status' (All, Yes, No), and 'By active' (All, Yes, No).

Add data :-

The screenshot shows the Django Admin 'Change user' page for 'admin'. The URL is 127.0.0.1:8000/admin/auth/user/2/change/. The sidebar on the left shows 'AUTHENTICATION AND AUTHORIZATION' with 'Groups' and 'Users' options. The main area shows a success message: 'The user "admin" was added successfully. You may edit it again below.' Below this, there are tabs for 'Personal info' and 'Permissions'. Under 'Personal info', fields for 'First name', 'Last name', and 'Email address' are present. Under 'Permissions', 'Active' is checked. A modal window titled 'Save password?' is open, asking for a 'Username' (admin) and 'Password' (redacted). It also states: 'Passwords are saved in your Google Account so you can use them on any device.'

Delete data :-

Update data :-

The screenshot shows the Django administration interface for a user named 'vishal'. The top navigation bar includes links for 'Home', 'Authentication and Authorization', 'Users', and 'vishal'. The left sidebar has sections for 'AUTHENTICATION AND AUTHORIZATION' (Groups, Users) and 'HISTORY'. The main content area is titled 'Change user' for 'vishal'. It shows the 'Username' field set to 'vishal' and the 'Password' field containing a hashed value. Below this is a 'Personal info' section with fields for 'First name', 'Last name', and 'Email address' (set to 'vishalprajapati2835@gmail.com'). Under 'Permissions', three checkboxes are checked: 'Active', 'Staff status', and 'Superuser status'. The bottom right of the window shows the operating system's taskbar with various icons.

The screenshot shows the Django administration interface for adding a new user. The top navigation bar includes links for 'Home', 'Authentication and Authorization', 'Users', and 'Add user'. The left sidebar has sections for 'AUTHENTICATION AND AUTHORIZATION' (Groups, Users). The main content area is titled 'Add user' and displays a message: 'The user "vishal" was changed successfully. You may add another user below.' Below this is a form for entering a new username and password. The 'Username' field is empty, and the 'Password' field contains a placeholder. The bottom right of the window shows the operating system's taskbar with various icons.