Python Django Internship Report

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Training Duration	:	26-05-2021 to 21-06-2021

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1] Print Hello world:-

Output

2] Take a year and check whether it is leap year or not:-

```python
def is_leap(year):

    if (year % 4) == 0:
        if (year % 100) == 0:
            if (year % 400) == 0:
                print("This is leap year")
            else:
                print("This is not leap year")
        else:
            print("This is leap year")
    else:
        print("This is not leap year")

year =int(input("Enter the year:"))
is_leap(year)
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day3_work/p3/pr3.py
Enter the year:2021
This is not leap year

Process finished with exit code 0
```

3]Take a number and find factorial of that number:

Output:

4]Take a number to print the square of a number if it is less than 10:

```python
Num = int(input("Enter the Number"))

if Num < 10:
    Num = Num ** 2
    print("Sqare of the Number is",Num)

else:
    print("Number is greate then 10")
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day3_work/p10/pr10.py
Enter the Number5
Sqare of the Number is 25

Process finished with exit code 0
```

5]Take 3 numbers and find smallest number using logical operator:

```python
Num1 = int(input("Enter the Number1:"))
Num2 = int(input("Enter the Number2:"))
Num3 = int(input("Enter the Number3:"))


if Num1 < Num3:
    if Num1 < Num2:
        print("Number1 is Smaller")
    else:
        print("Number2 is Smaller")

else:
    if Num3 < Num2:
        print("Number3 is Smaller")
    else:
        print("Number2 is Smaller")
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day3_work/p13/pr13.py
Enter the Number1:50
Enter the Number2:65
Enter the Number3:42
Number3 is Smaller

Process finished with exit code 0
```

6]Write a program to swap 2 numbers without taking third variable:

```
x = int(input("Enter the Number1:"))
y = int(input("Enter the Number2:"))

x, y = y, x
print('The value of x after swapping:',x)
print('The value of y after swapping:',y)
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day3_work/p14/pr14.py
Enter the Number1:20
Enter the Number2:89
The value of x after swapping: 89
The value of y after swapping: 20

Process finished with exit code 0
```

7]Take starting number and ending number from the user and print following series.Output :-

Enter starting number : 30, Enter ending number : 0

30,27,24,21,18,15,12,9,6,3,0:

```python
x = int(input("Enter the Starting Number:"))
y = int(input("Enter the Ending Number:"))

for x in range(y+1):

    if x % 3 != 0:
        continue

    print("value is :", x)
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day3_work/p15/pr15.py
Enter the Starting Number:0
Enter the Ending Number:30
value is : 0
value is : 3
value is : 6
value is : 9
value is : 12
value is : 15
value is : 18
value is : 21
value is : 24
value is : 27
value is : 30

Process finished with exit code 0
```

8] Function Basic:

```python
#function with no return statement
def my_fun():
    print("Hello Everyone")

my_fun()

#function with return statement
def my_function(name):
    return name

name = my_function("Bhaumik Joshi")
print(name)

#function with multiple return statement
def my_function():
    name = "Bhaumik Joshi"
    contact ="9106718508"
    return name, contact

name, contact = my_function()
print("Name:", name)
print("Contact:", contact)
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day4_work/day4p1/day4p1.py
Hello Everyone
Bhaumik Joshi
Name: Bhaumik Joshi
Contact: 9106718508

Process finished with exit code 0
```

9] Global and Local variable define :

```python
#global and local variable in python

x = 10 #This is global value

def my_fun():
    x = 15 #This is local value we can't assign this value outside the function
    print("Inner value of x is:", x)



my_fun()
print("Outer value of x is:", x)
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day4_work/day4p3/day4pr3.py
Inner value of x is: 15
Outer value of x is: 10

Process finished with exit code 0
```

10]Create a class cal2 that will calculate area of a circle. Create setdata() method that should take radius from the user. Create area() method that will calculate area . Create display() method that will display area :

```python
class cal2:

    def setdata(self, r):
        self.r = r


    def area(self):
        area = 3.14 * self.r * self.r
        print('Area of circle is: ', area)


c2 = cal2()
c2.setdata(2)
c2.area()
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day5_work/day5_p2/day5_p2.py
Area of circle is:  12.56

Process finished with exit code 0
```

11]Create a class cal3 that will calculate simple interest. Create constructor method which has three parameters .Create calInterest() method that will calculate Interest . Create display() method that will display Interest.:

```python
class cal3:

    def __init__(self, p, r, t):
        self.p = p
        self.r = r
        self.t = t


    def callinterest(self):
        interest =self.p*self.r*self.t/100
        print('Simple Interest is: ', interest)


c3 = cal3(100000,5,1)
c3.callinterest()
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day5_work/day5_p3/day5_p3.py
Simple Interest is:  5000.0

Process finished with exit code 0
```

12]Consider an employee class, which contains fields such as name and designation. And a subclass, which contains a field salary. Write a program for inheriting this relation. :

```python
class employee:

    def EMP(self):
        print("Name: Bhaumik Joshi")
        print("Designation: Python Developer")


class employee1(employee):

    def EMP1(self):

        print("salary:20000")


e = employee1()
e.EMP()
e.EMP1()
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day5_work/day5_p5/day5_p5.py
Name: Bhaumik Joshi
Designation: Python Developer
salary:20000

Process finished with exit code 0
```

13] Create a class cal5 that will calculate area of a rectangle. Create constructor method which has two parameters .Create calArea() method that will calculate area of a rectangle. Create display() method that will display area of a rectangle. :

```python
class cal5:

    def __init__(self, l, b):
        self.l = l
        self.b = b


    def CalArea(self):
        return self.l*self.b


    def display(self):
        print("Area of Recatangle is: ", c5.CalArea())



c5 = cal5(10,10)
c5.display()
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day5_work/day5_p6/day5_p6.py
Area of Recatangle is:  100

Process finished with exit code 0
```

14] Create a class cal6 that will calculate area of a square. Create setdata() method that should take length from the user. Create area() method that will calculate area . Create display() method that will display area .:

```python
class cal6:

    def __init__(self, l):
        self.l = l

    def Area(self):
        return self.l*self.l


    def display(self):
        print("Area of Square is: ", c6.Area())



c6 = cal6(5)
c6.display()
```

Output:

```
C:\Users\bhaum\Desktop\pintern\venv\Scripts\python.exe C:/Users/bhaum/Desktop/pintern/Day5_work/day5_p7/day5_p7.py
Area of Square is:  25

Process finished with exit code 0
```

15]User Registration form using HTML & CSS

Registration.html file:

```html
<!DOCTYPE html>
<html>
<head>
    <title>Student Registration</title>
    <link rel="stylesheet" type="text/css" href="style.css">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

</head>
<body>
    <section>
        <div class="reg_img">
        <br>
        <div class="box2" style="...">
        <h1 style="...">User Registration Form</h1><br>
            <form name="Registration" action="" method="post">
            <br>
            <div class="Login">
                <input type="text" name="first" placeholder="Firstname" required=""><br><br>
                <input type="text" name="last" placeholder="Lastname" required=""><br><br>
                <input type="text" name="username" placeholder="Username" required=""><br><br>
                <input type="password" name="password" placeholder="password" required=""> <br><br>
                <input type="text" name="email" placeholder="Email" required=""><br><br>
                <input type="text" name="contact" placeholder="Phone No" required=""><br><br>
                <textarea name="Address" placeholder="Address" cols="35" rows="5" required=""></textarea><br><br>
                <input type="submit" name="submit" value="Register" style="...">
            </div>
            </form>
        </div>
    </div>
```

Style.css:

```css
*{
  margin: 0%; padding: 0%; box-sizing: border-box;
  font-family: 'Reggae One', cursive;
}
.reg_img{
  height: 110vh;
  width: 100%;
  background-image: url("image/2.jpg");
}
.box2{
  height: 700px;
  width: 500px;
  background: black;
  margin:50px auto;
  opacity: .8;
  color: white;
  padding: 20px;
}
form.login{
  margin: auto 20px;

}
input{
  height: 50px;
  width: 300px;
}

textarea {
  resize: vertical;
}
```

Output:

Student Registration
File | C:/Users/bhaum/Desktop/pintern/Registration/Registration.html
User Registration Form
Firstname
Lastname
Username
password
Email
Phone No
Address
Register

16] <u>Create simple webpage using table content:</u>

Index.html file

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=<device-width>, initial-scale=1.0">
    <link rel="stylesheet" type="text/css" href="style.css">

    <title> </title>
</head>
<body>
    <header>
        <nav>
            <div class="logo" h1 class="animate__heartBeat">BJ</h1></div>
            <div class="menu">
                <a href="index.html">Home</a>
                <a href="Registration.html">Registration Details</a>
            </div>
        </nav>
            <main>
                <section>
                    <h3>Welcome To MY WEBSITE</h3>
                    <h1>BJ Creater</h1>
                    <p>"This website was devloped by Bhaumik"</p>
                    <br>
                    <br>
                    <a href="Registration.html" class="btnone">Registration Details</a>
                    <a href="" class="btntwo">sighup here</a>

                </section>

            </main>
```

Output:-

Output:-

FIRSTNAME	LASTNAME	USERNAME	PASSWORD	E-MAIL	PHONE_NO	ADDRESS
JILL	PATEL	JILL123	JIL123	JILL@GMAIL.COM	123456789	XYZ, XYZ
JAY	JOSHI	JAY124	JAY124	JAY124@GMAIL.COM	123456789	XYZ,XYZ
POOJAN	PATEL	POOJAN125	POOJAN125	POOJAN125@GMAIL.COM	123456789	XYZ,XYZ
KATHAN	PATEL	KATHAN126	KATHAN126	KATHAN126@GMAIL.COM	123456789	XYZ,XYA
ARPIT	THAKKAR	ARPIT127	ARPIT127	ARPIT127@GMAIL.COM	123456789	XYZ,XYZ
RAJ	JACKSON	RAJ128	RAJ128	RAJ128@GMAIL.COM	123456789	XYZ,XYZ

17] <u>Django Web-Devlopment Work.</u>

1) urls.py file.

urls.py - Django_WEBDEVLOPMENT_Work - Visual Studio Code

```python
"""djangointernship URL Configuration

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/3.2/topics/http/urls/
Examples:
Function views
    1. Add an import:  from my_app import views
    2. Add a URL to urlpatterns:  path('', views.home, name='home')
Class-based views
    1. Add an import:  from other_app.views import Home
    2. Add a URL to urlpatterns:  path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
"""
from django.contrib import admin
from django.urls import path,include

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

2.) app.py file

apps.py - Django_WEBDEVLOPMENT_Work - Visual Studio Code

```python
from django.apps import AppConfig


class MyappConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
    name = 'myapp'
```

3) urls.py file:

urls.py - Django_WEBDEVLOPMENT_Work - Visual Studio Code

```python
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'),
    path('slist' , views.studentlist.as_view(),name="s1"),
]
```

4) **view.py file.:**

views.py - Django_WEBDEVLOPMENT_Work - Visual Studio Code

```python
from django.shortcuts import render
from django.http import HttpResponse
from django.views.generic import ListView
from .models import Student

# 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})

class studentlist(ListView):
```

```
Quit the server with CTRL-BREAK.
[12/Jun/2021 14:57:48] "GET /admin/myapp/student/add/ HTTP/1.1" 200 6994
[12/Jun/2021 14:57:49] "GET /admin/myapp/student/ HTTP/1.1" 200 6755
[12/Jun/2021 14:57:55] "GET / HTTP/1.1" 200 5355
[12/Jun/2021 14:58:03] "GET /slist HTTP/1.1" 200 97
```

5) moduls.py file:

5) admin.pyfile:

Output file:

Upload files · Bhaumik-BJ/pytho
BJ WEBDEVELOPMENT
127.0.0.1:8000
HOMEPAGE
BLOG
PHOTOS
ABOUT
LINKS
CONTACT
bhaumik webdevlopment
WELCOME TO BJ WEBDEVLOPMENT
June 07, 2021
Posted by Bhaumik
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SEARCH HERE:
ALIQUAM TEMPUS
Mauris vitae nisl nec metus placerat perdiet est. Phasellus dapibus semper consectetuer hendrerit.
CATEGORIES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Urnanet non molestie semper
Proin gravida orci porttitor
ARCHIVES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Urnanet non molestie semper
Proin gravida orci porttitor

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BJ WEBDEVELOPMENT
127.0.0.1:8000/about
HOMEPAGE BLOG PHOTOS ABOUT LINKS CONTACT
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CATEGORIES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Ornanet non molestie semper
Proin gravida orci porttitor
ARCHIVES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Ornanet non molestie semper
Proin gravida orci porttitor

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BJ WEBDEVELOPMENT
127.0.0.1:8000/contact
HOMEPAGE BLOG PHOTOS ABOUT LINKS CONTACT
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Mauris vitae nisl nec metus placerat perdiet est. Phasellus dapibus semper consectetuer hendrerit.
CATEGORIES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Ornanet non molestie semper
Proin gravida orci porttitor
ARCHIVES
Aliquam libero
Consectetuer adipiscing elit
Metus aliquam pellentesque
Suspendisse iaculis mauris
Ornanet non molestie semper
Proin gravida orci porttitor