

# Assignment-1

## Question-1:

Create registration page in html with username, email, and phone number and by using POST method display it in next html page.

The screenshot displays an HTML editor interface. On the left, a registration form is visible with the following fields:

- Username:
- Phone:
- Email:

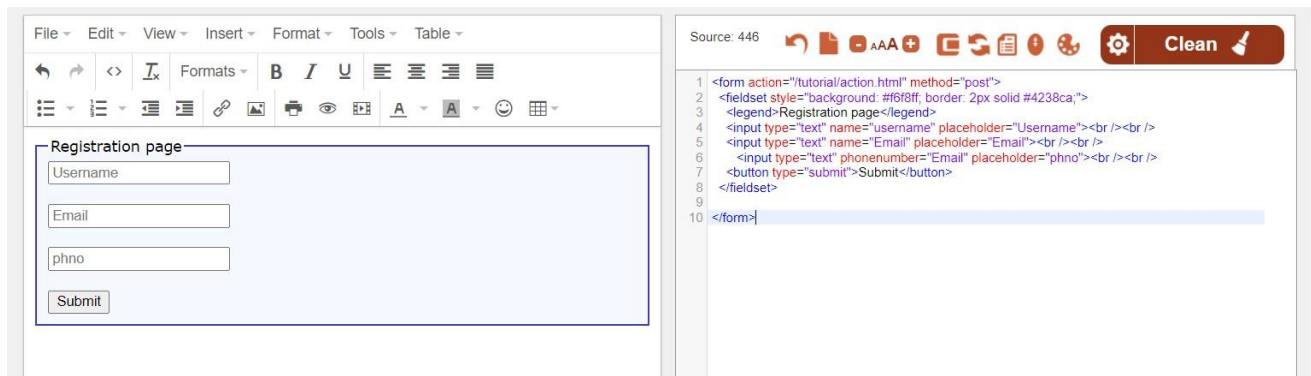
On the right, the source code of the form is shown, starting with line 1: `<html>` and ending with line 34: `</html>`. The code includes a title "Registration Page" and a form with the following structure:

```
1 <html>
2 <head>
3 <title>
4 Registration Page
5 </title>
6 </head>
7 <body bgcolor="LightSkyBlue">
8 <br>
9 <br>
10 <form>
11
12 <label> Username </label>
13 <input type="text" name="firstname" size="15"/> <br> <br>
14
15 <label>
16
17
18 <br>
19 <br>
20 <br>
21 <label>
22
23 Phone :
24 </label>
25 <input type="text" name="country_code" value="+91" size="2"/>
26 <input type="text" name="phone" size="10"/> <br> <br>
27
28 Email:
29 <input type="email" id="email" name="email"/> <br>
30 <br> <br>
31
32 </form>
33 </body>
34 </html>
```

The screenshot shows a web browser window displaying the registration page. The page title is "Registration Page". The form fields are identical to the ones in the HTML editor:

- Username:
- Phone:
- Email:

The browser's address bar shows the URL <https://html-online.com/editor/>. The page number "1/1" is visible in the bottom right corner.



## Question-2:

Develop a Flask program which should contain at least 5 packages used from pypi.org

### #1. NUMPY

```
import numpy as np

arr = np.array([[ -1,  2,  0,  4],
                [ 4, -0.5, 6,  0],
                [2.6,  0,  7,  8],
                [ 3, -7,  4, 2.0]])

print("Initial Array: ")
print(arr)
```

```
Initial Array:
[[-1.   2.   0.   4. ]
 [ 4.  -0.5  6.   0. ]
 [ 2.6  0.   7.   8. ]
 [ 3.  -7.   4.   2. ]]
```

### #2. PANDAS

```
import pandas as pd

s1 = pd.Series([1, 3, 4, 5, 6, 2, 9])

s2 = pd.Series([1.1, 3.5, 4.7, 5.8, 2.9, 9.3])

s3 = pd.Series(['a', 'b', 'c', 'd', 'e'])

Data = {'first':s1, 'second':s2, 'third':s3}

df = pd.read_csv('/content/sample_data/ds_salaries.csv')
print(df)
```

	Unnamed: 0	work_year	experience_level	employment_type	\
0	0	2020	MI	FT	
1	1	2020	SE	FT	
2	2	2020	SE	FT	
3	3	2020	MI	FT	
4	4	2020	SE	FT	
..	...	...	...	...	
602	602	2022	SE	FT	
603	603	2022	SE	FT	
604	604	2022	SE	FT	
605	605	2022	SE	FT	
606	606	2022	MI	FT	

	job_title	salary	salary_currency	salary_in_usd
\				
0	Data Scientist	70000	EUR	79833
1	Machine Learning Scientist	260000	USD	260000
2	Big Data Engineer	85000	GBP	109024
3	Product Data Analyst	20000	USD	20000
4	Machine Learning Engineer	150000	USD	150000
..	...	...	...	...
602	Data Engineer	154000	USD	154000
603	Data Engineer	126000	USD	126000
604	Data Analyst	129000	USD	129000
605	Data Analyst	150000	USD	150000
606	AI Scientist	200000	USD	200000

	employee_residence	remote_ratio	company_location	company_size
0	DE	0	DE	L
1	JP	0	JP	S
2	GB	50	GB	M
3	HN	0	HN	S
4	US	50	US	L
...	...	...	...	...
602	US	100	US	M
603	US	100	US	M
604	US	0	US	M
605	US	100	US	M
606	IN	100	US	L

[607 rows x 12 columns]

### #3. SEABORN

```
import seaborn as sns
```

```
sns.pairplot(df,hue="salary",height=3)
```

```
<seaborn.axisgrid.PairGrid at 0x7f32024d5650>
```

