**Assignment**

**1)User registration form:**

**index.html :**

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

<meta charset="UTF-8">

<title> User Registration Form </title>

<link rel="stylesheet" href="style.css">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<div class="container">

<div class="title">Registration</div>

<div class="content">

<form action="#">

<div class="user-details">

<div class="input-box">

<span class="details">Full Name</span>

<input type="text" placeholder="Enter your name" required>

</div>

<div class="input-box">

<span class="details">Username</span>

<input type="text" placeholder="Enter your username" required>

</div>

<div class="input-box">

<span class="details">Email</span>

<input type="text" placeholder="Enter your email" required>

</div>

<div class="input-box">

<span class="details">Phone Number</span>

<input type="text" placeholder="Enter your number" required>

</div>

<div class="input-box">

<span class="details">Password</span>

<input type="text" placeholder="Enter your password" required>

</div>

<div class="input-box">

<span class="details">Confirm Password</span>

<input type="text" placeholder="Confirm your password" required>

</div>

</div>

<div class="gender-details">

<input type="radio" name="gender" id="dot-1">

<input type="radio" name="gender" id="dot-2">

<input type="radio" name="gender" id="dot-3">

<span class="gender-title">Gender</span>

<div class="category">

<label for="dot-1">

<span class="dot one"></span>

<span class="gender">Male</span>

</label>

<label for="dot-2">

<span class="dot two"></span>

<span class="gender">Female</span>

</label>

<label for="dot-3">

<span class="dot three"></span>

<span class="gender">Prefer not to say</span>

</label>

</div>

</div>

<div class="button">

<input type="submit" value="Register">

</div>

</form>

</div>

</div>

</body>

</html>

**style.css**

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: 'Poppins',sans-serif;

}

body{

height: 100vh;

display: flex;

justify-content: center;

align-items: center;

padding: 10px;

background: linear-gradient(135deg, #71b7e6, #9b59b6);

}

.container{

max-width: 700px;

width: 100%;

background-color: #fff;

padding: 25px 30px;

border-radius: 5px;

box-shadow: 0 5px 10px rgba(0,0,0,0.15);

}

.container .title{

font-size: 25px;

font-weight: 500;

position: relative;

}

.container .title::before{

content: "";

position: absolute;

left: 0;

bottom: 0;

height: 3px;

width: 30px;

border-radius: 5px;

background: linear-gradient(135deg, #71b7e6, #9b59b6);

}

.content form .user-details{

display: flex;

flex-wrap: wrap;

justify-content: space-between;

margin: 20px 0 12px 0;

}

form .user-details .input-box{

margin-bottom: 15px;

width: calc(100% / 2 - 20px);

}

form .input-box span.details{

display: block;

font-weight: 500;

margin-bottom: 5px;

}

.user-details .input-box input{

height: 45px;

width: 100%;

outline: none;

font-size: 16px;

border-radius: 5px;

padding-left: 15px;

border: 1px solid #ccc;

border-bottom-width: 2px;

transition: all 0.3s ease;

}

.user-details .input-box input:focus,

.user-details .input-box input:valid{

border-color: #9b59b6;

}

form .gender-details .gender-title{

font-size: 20px;

font-weight: 500;

}

form .category{

display: flex;

width: 80%;

margin: 14px 0 ;

justify-content: space-between;

}

form .category label{

display: flex;

align-items: center;

cursor: pointer;

}

form .category label .dot{

height: 18px;

width: 18px;

border-radius: 50%;

margin-right: 10px;

background: #d9d9d9;

border: 5px solid transparent;

transition: all 0.3s ease;

}

#dot-1:checked ~ .category label .one,

#dot-2:checked ~ .category label .two,

#dot-3:checked ~ .category label .three{

background: #9b59b6;

border-color: #d9d9d9;

}

form input[type="radio"]{

display: none;

}

form .button{

height: 45px;

margin: 35px 0

}

form .button input{

height: 100%;

width: 100%;

border-radius: 5px;

border: none;

color: #fff;

font-size: 18px;

font-weight: 500;

letter-spacing: 1px;

cursor: pointer;

transition: all 0.3s ease;

background: linear-gradient(135deg, #71b7e6, #9b59b6);

}

form .button input:hover{

/\* transform: scale(0.99); \*/

background: linear-gradient(-135deg, #71b7e6, #9b59b6);

}

@media(max-width: 584px){

.container{

max-width: 100%;

}

form .user-details .input-box{

margin-bottom: 15px;

width: 100%;

}

form .category{

width: 100%;

}

.content form .user-details{

max-height: 300px;

overflow-y: scroll;

}

.user-details::-webkit-scrollbar{

width: 5px;

}

}

@media(max-width: 459px){

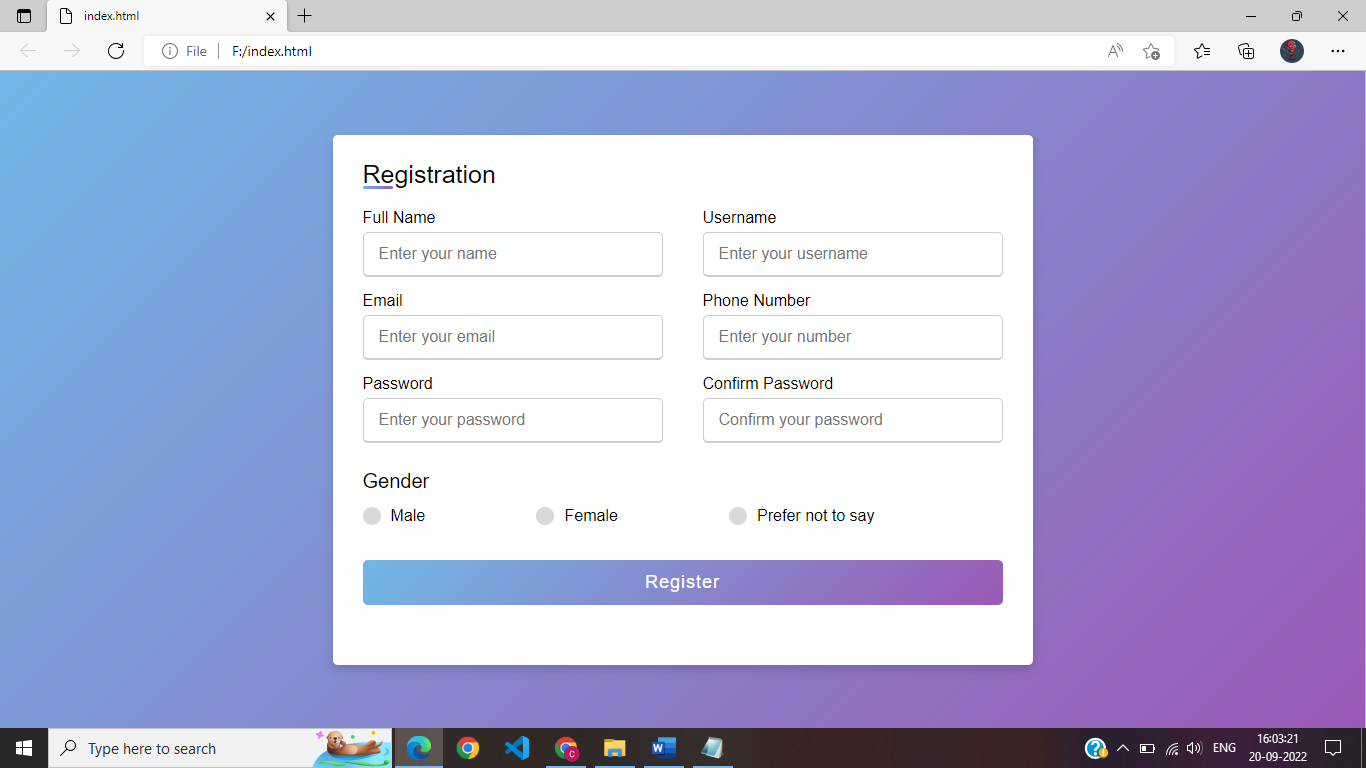
.container .content .category{

flex-direction: column;

}

}

**Output :**

****

**2)HTML Formatting Elements**

Formatting elements were designed to display special types of text:

* <b> - Bold text

<html>

<body>

<p><b>This text is bold.</b></p>

</body>

</html>

* <strong> - Important text

<p><strong>This text is important!</strong></p>

<i> - Italic text

<p><i>This text is italic.</i></p>

* <em> - Emphasized text

<p><em>This text is emphasized.</em></p>

* <mark> - Marked text

<p>Do not forget to buy <mark>pen</mark> today.</p>

* <small> - Smaller text

<p><small>This is some smaller text.</small></p>

* <del> - Deleted text

<p>My favorite color is <del>white</del> red.</p>

* <ins> - Inserted text

<p>My favorite color is <del>white</del> <ins>purple</ins>.</p>

* <sub> - Subscript text

<p>This is <sub>subscripted</sub> text.</p>

* <sup> - Superscript text

<p>This is <sup>superscripted</sup> text.</p>

**3)HTML Input Types**

Here are the different input types you can use in HTML:

* + - <input type="button">
    - <input type="checkbox">
    - <input type="color">
    - <input type="date">
    - <input type="datetime-local">
    - <input type="email">
    - <input type="file">
    - <input type="hidden">
    - <input type="image">
    - <input type="month">
    - <input type="number">
    - <input type="password">
    - <input type="radio">
    - <input type="range">
    - <input type="reset">
    - <input type="search">
    - <input type="submit">
    - <input type="tel">
    - <input type="text">
    - <input type="time">
    - <input type="url">
    - <input type="week">

**Module 3:**

1. Consider a list (list=[]). You can perform the following commands: insert e: Insert integer at position. print: Print the list. remove e: Delete the first occurrence of integer. append e: Insert integer at the end of the list. sort: Sort the list. pop: Pop the last element from the list. reverse: Reverse the list.

Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above from the list. reverse: Reverse the list. Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above. Iterate through each command in order and perform the corresponding operation on your list.

**Sample Input:**

12

insert 0 5

insert 1 10

insert 0 6

print

remove 6

append 9

append 1

sort

print

pop

reverse

print

**Program :**

import sys

if \_name\_ == '\_main\_':

N = int(input())

my\_list = []

inputs = []

for line in sys.stdin:

inputs.append(line)

for item in inputs:

if item[0:5] == 'print':

print(my\_list)

elif item[0:2] == 'in':

inserts = [s for s in item.split()][1:3]

inserts = list(map(int, inserts))

my\_list.insert(inserts[0], inserts[1])

elif item[0:3] == 'rem':

inserts = list(map(int, [s for s in item.split()][1]))

my\_list.remove(inserts[0])

elif item[0:2] == 'ap':

inserts = list(map(int, [s for s in item.split()][1]))

my\_list.append(inserts[0])

elif item[0:4] == 'sort':

my\_list.sort()

elif item[0:3] == 'pop':

my\_list.pop()

elif item[0:7] == 'reverse':

my\_list.reverse()

**output :**

[6, 5, 10]

[1, 5, 9, 10]

[9, 5, 1]

**2)Simple calculator**

**Program:**

def add(x, y):

return x + y

def subtract(x, y):

return x - y

def multiply(x, y):

return x \* y

def divide(x, y):

return x / y

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

while True:

choice = input("Enter choice(1/2/3/4): ")

if choice in ('1', '2', '3', '4'):

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

if choice == '1':

print(num1, "+", num2, "=", add(num1, num2))

elif choice == '2':

print(num1, "-", num2, "=", subtract(num1, num2))

elif choice == '3':

print(num1, "\*", num2, "=", multiply(num1, num2))

elif choice == '4':

print(num1, "/", num2, "=", divide(num1, num2))

next\_calculation = input("Let's do next calculation? (yes/no): ")

if next\_calculation == "no":

break

else:

print("Invalid Input")

3)Write a program for concatenate,reverse ,slice a string?

**Concatenate:**

Str1=”hello”

Str2=”world”

Str3=str1+str2

Print(str3)

**Reverse:**

txt = "Hello World"[::-1]

print(txt)

**slice :**

b = "Hello, World!"

print(b[:5])

**output:**

Hello

4)why is python a popular programming language?

Due to its ease of learning and usage, Python codes can easily be written and executed much faster than other programming languages. One of the main reasons why Python’s popularity has exponentially grown is due to its simplicity in syntax so that it could be easy to read and developed by amateur professionals as well

Python is Handy for Web Development Purposes has Multiple Libraries and Frameworks

5)what are the other frameworks in python?

* Django
* Pyramid
* Turbogears
* Web2py
* Cherrypie
* Flask
* Sanic

6)Full form of WSGI

The Web Server Gateway Interface is standard interface between web server software and web applications written in Python. Having a standard interface makes it easy to use an application that supports WSGI with a number of different web servers.