

Program 1

Aim: Create your own page with your favourite hobbies using HTML, JavaScript and CSS.

Source Code:

```
<!DOCTYPE html>

<html>

<head>

    <title>Hobbies</title>

</head>

<body>

    <h1 align="center">My favourite hobbies</h1>

    <table border="1px" width="30%" cellspacing="5px" cellpadding="5px" bgcolor="white"
align="center" <tr>

        <th>Sr.No.</th>

        <th>Hobbies</th>

        <th>Image</th>

    </tr>

    <tr align="center">

        <td>1st</td>

        <td>Playing Cricket</td>

        <td></td>

    <tr align="center">

        <td>2nd</td>

        <td>Reading Books</td>

        <td></td>

    <tr align="center">

        <td>3rd</td>

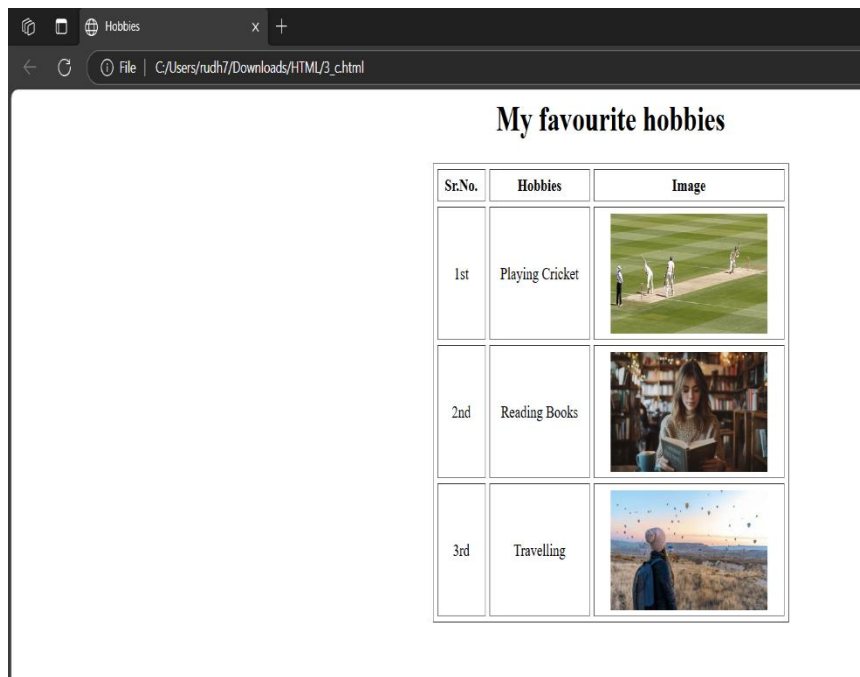
        <td>Travelling</td>
```

```
<td></td>
```

```
</body>
```

```
</html>
```

Output:



Program 2

Aim: Create a frameset in HTML that is divided into three sections. The frameset should have three zones.

- a. The Topmost section of the frameset should take up about just 15% of the browser window. Name this frame title.
- b. The middle section should be 75% of the browser window. Name this frame title.
- c. The lower section should be 10% of the browser window. Name this frame menu.

Source Code:

HTML

```
<!DOCTYPE html>

<html>

  <head>

    <title>Final page</title>

    <frameset rows="15%,75%,10%">

      <frame src="2_A.html">p1</frame>

      <frame src="2_B.html">p2</frame>

      <frame src="2_C.html">p3</frame>

    </head>

  </html>
```

1. Frameset 1

```
<!DOCTYPE html>
<html>
  <head>
    <title>Top Section</title>
  </head>
  <body style="background-color: greenyellow;" align="center">
    <h2>Top Section</h2>
    <p>This is the top Section of page</p>
  </body>
</html>
```

2. Frameset 2

```
<!DOCTYPE html>

<html>

  <head>

    <title>Middle Section</title>

  </head>

  <body style="background-color:burlywood;" align="center">

    <h2>Middle Section</h2>

    <p>This is the Middle Section of page</p>

  </body>

</html>
```

3. Frameset 3

```
<!DOCTYPE html>

<html>

  <head>

    <title>Bottom Section</title>

  </head>

  <body style="background-color: skyblue;" align="center">

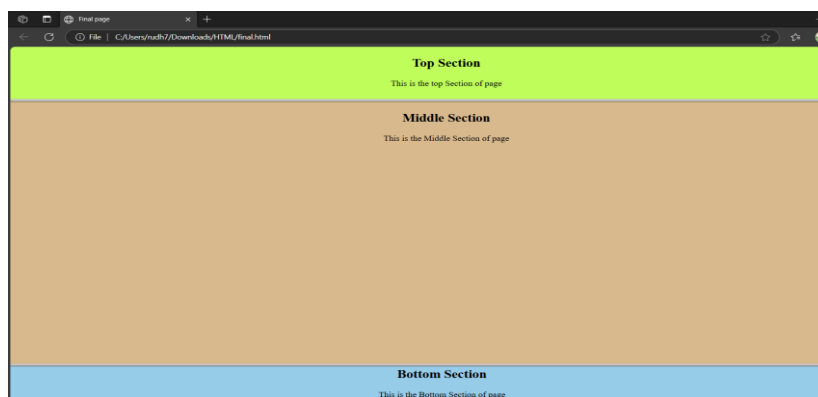
    <h2>Bottom Section</h2>

    <p>This is the Bottom Section of page</p>

  </body>

</html>
```

Output:



Program 3

Aim: Create pages for each section. For the lowermost section, create page that loads the content into the middle section. The topmost section should contain a page describing the web page itself.

Source Code:

HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Final page</title>
    <frameset cols="30%,30%,40%">
      <frame src="3_a.html" name="First">p1</frame>
      <frame src="3_b.html" name="Middle">p2</frame>
      <frame src="3_c.html" name="Third">p3</frame>
    </head>
</html>
```

1. Frameset 1

```
<!DOCTYPE html>
<html>
  <body style="background-color:burlywood;">
    <h1 align="center">First section</h1>
    <h2 align="center">Welcome to Our Website</h2>
    <p>This website has multiple sections:</p>
    <ul>
      <li>Top Section: Overview of the site.</li>
      <li>Middle Section: Displays dynamic content.</li>
      <li>Bottom Section: It loads the content of middle section.</li>
    </ul>
  </body>
</html>
```

2. Frameset 2

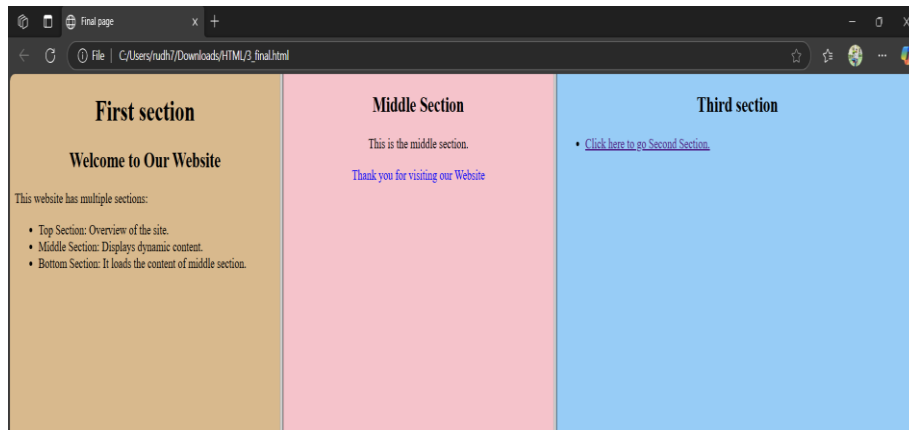
```
<!DOCTYPE html>
<html>
  <body align="center" style="background-color: pink;">
    <h2>Middle Section</h2>
    <p>This is the middle section.</p>
    <p style="color:blue">Thank you for visiting our Website</p>
  </body>
</html>
```

3. Frameset 3

```
<!DOCTYPE html>
<html>
  <body style="background-color:lightskyblue;">
    <h2 align="center">Third section</h2>
    <ul>
      <li><a href="3_b.html" target="Middle">Click here to go Second Section</a></li>

    </ul>
  </body>
</html>
```

Output:



Program 4

Aim: Create a web page, which displays the map of your country Link, each city /state on the image map, such that the respective HTML page of the city/state is displayed when the user selects an area.

Source Code:

HTML

```
<!DOCTYPE html>
<html>
<body>
  <h1 align="center" style="font-size: 250%;"></h1>
  <p align="center"></p>
  <hr>
  <h2>Haryana</h2>
  
  <p><a href="haryana_page.html"> Click here</a> for more information about Haryana</p>
  <hr>
  <h2>Punjab</h2>
  
  <p><a href="punjab.html"> Click here</a> for more information about Punjab</p>
</body>
</html>
```

1. Frameset 1

```
<!DOCTYPE html>
<html>
<head>
  <title>Haryana</title>
</head>
<body align="center">
  <h1 align="center">Welcome to Haryana</h1>
  <br><br>
  <span>Haryana, state in north-central India. It is bounded on the northwest by the state
of Punjab and the union
    territory of Chandigarh, on the north and northeast by the states of Himachal Pradesh
and Uttarakhand, on the
```

east by the state of Uttar Pradesh and the union territory of Delhi, and on the south and southwest by the state of Rajasthan.

It is among the most prosperous states in India, having one of the highest per-capita income. The name of

Haryana instantly conjures up the image of a State which astonishingly combines both-antiquity and plenty. The

Vedic land of Haryana has been a cradle of Indian culture and civilization.

[Click here](map.html) to go back to the map

2. Frameset 2

<!DOCTYPE html>

<html>

<head>

<title>Punjab</title>

</head>

<body align="center">

<h1 align="center">Welcome to Punjab</h1>

Punjab is situated in the northern region of India, is a state that boasts a unique blend of tradition and

modernity. Its name, "Punjab," translates to "Land of Five Rivers," as it is crisscrossed by the Beas, Chenab,

Jhelum, Ravi, and Sutlej rivers. These rivers provide the fertile soil that makes Punjab one of India's leading

agricultural states. The Indian state of Punjab is located in the country's northwestern region. One of the

oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was

greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a

stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern

region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of

Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state

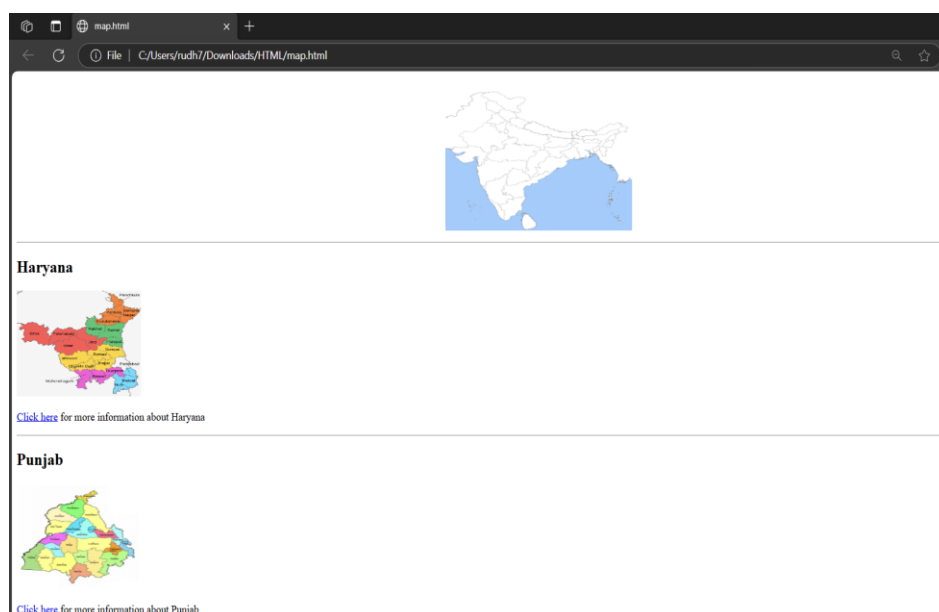
capital, is a stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam.

Chandigarh, the state capital, is a stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a stunning example of 20th-century design.

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[Click here](#) to go back to the map

Output:



Haryana

File

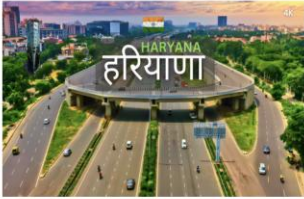
C:/Users/nudhi7/Downloads/HTML/haryana_page.html

☆

☆

...

Welcome to Haryana



Haryana, state in north-central India. It is bounded on the northwest by the state of Punjab and the union territory of Chandigarh, on the north and northeast by the states of Himachal Pradesh and Uttarakhand, on the east by the state of Uttar Pradesh and the union territory of Delhi, and on the south and southwest by the state of Rajasthan. It is among the most prosperous states in India, having one of the highest per-capita income. The name of Haryana instantly conjures up the image of a State which astonishingly combines both-antiquity and plenty. The Vedic land of Haryana has been a cradle of Indian culture and civilization.

[Click here](#) to go back to the map

Punjab

File

C:/Users/nudhi7/Downloads/HTML/punjab.html

☆

☆

...

Welcome to Punjab



Punjab is situated in the northern region of India, is a state that boasts a unique blend of tradition and modernity. Its name, "Punjab," translates to "Land of Five Rivers," as it is crisscrossed by the Beas, Chenab, Jhelum, Ravi, and Sutlej rivers. These rivers provide the fertile soil that makes Punjab one of India's leading agricultural states. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a stunning example of 20th-century design. The Indian state of Punjab is located in the country's northwestern region. One of the oldest cultures practised in the world is the Punjabi culture, which is found in our state of Punjab. Punjab was greatly influenced by the architectural styles of Buddhism and Islam. Chandigarh, the state capital, is a stunning example of 20th-century design.

[Click here](#) to go back to the map

Program 5

Aim: Create a webpage for implementing CSS:

Source Code:

a. Inline CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Inline css</title>
</head>
<body>
  <h1 style="background-color: pink;">This is First Heading</h1>
  <p style="color: crimson;">This is inline css program.</p>
</body>
</html>
```

b. Internal CSS

```
<!DOCTYPE html>
<html>
<head>
  <title>Internal css</title>
</head>
<style>
  h1 {
    color: bisque;
  }
  p {
    background-color: aqua;
  }
</style>
<body>
  <h1>This is First Heading</h1>
  <p>This is Internal css program.</p>
</body>
</html>
```

c. External CSS

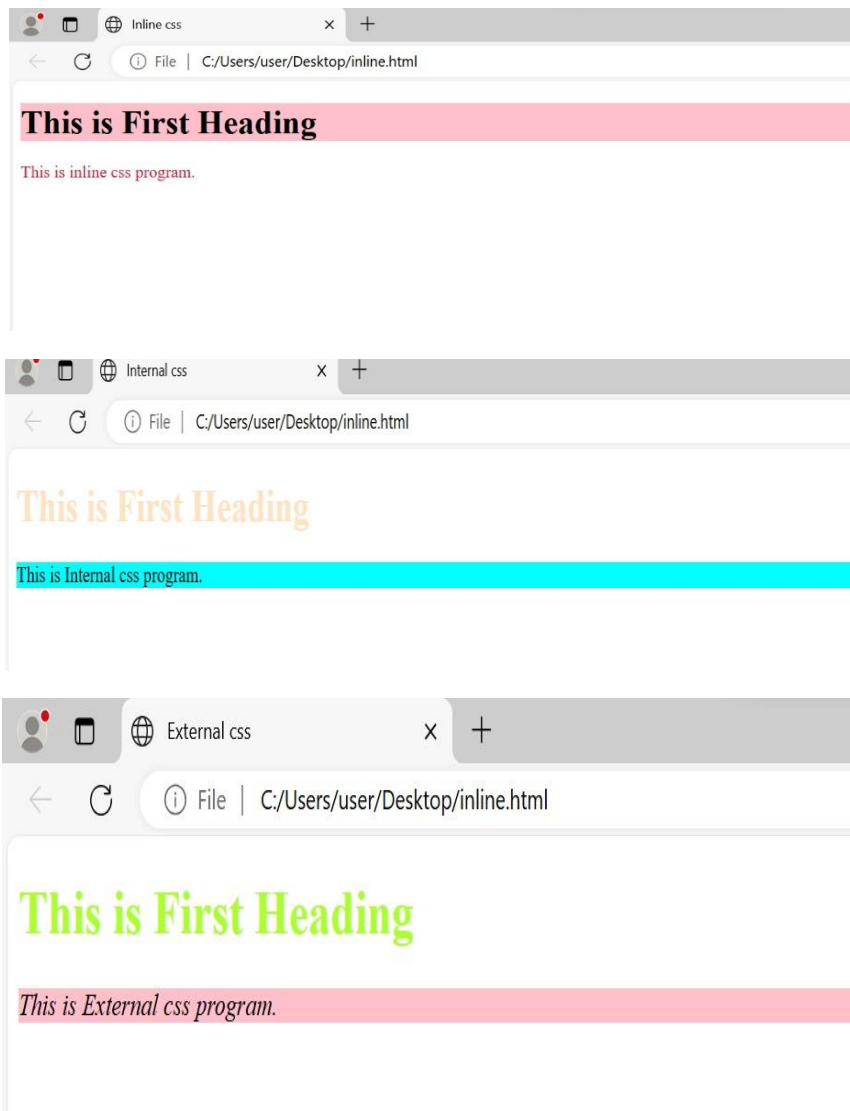
```
<!DOCTYPE html>
<html>
<head>
  <title>External css</title>
</head>
<link rel="stylesheet" href="external.css">
<body>
  <h1>This is First Heading</h1>
```

```

    <p>This is External css program.</p>
  </body>
</html>
Style.css
p{
  background-color: pink;
  font-style: italic;
}
h1{
  color: greenyellow;
  font-size: 200%;
}

```

Output:



Program 6

Aim: Use Cascading Style sheets (CSS) to modify the following:

- a. **Change background.**
- b. **Change font type, face and color.**
- c. **Align Text.**

Source Code:

```
<!DOCTYPE html>

<html>

<head>

  <title>CSS Properties</title>

</head>

<style>

  h1 {

    color:white;

    background-color:blue;

    text-align:center;

  }

  ul{

    font-family: 'Times New Roman', Times, serif;

    font-style: italic;

    text-align:left;

    border-radius:10%;

    border-style:groove;

    background-color: plum;

  }

</style>

<body>

  <h1>This Webpage contains CSS Properties to update .</h1>

  <ul>

    <li>Background-color</li>
```

```
<li>font-type</li>
<li>font-face</li>
<li>font-color</li>
<li>align-text</li>
</ul>
</body>
</html>
```

Output:



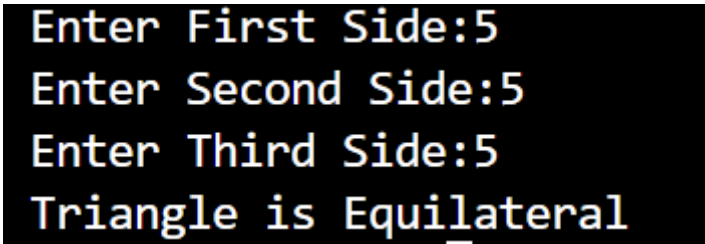
Program 7

Aim: Write a Python function/program that accepts the lengths of three sides of a triangle as inputs. The program output should indicate whether or not the triangle is an equilateral triangle.

Source Code:

```
side1=int(input("Enter First Side:"))
side2=int(input("Enter Second Side:"))
side3=int(input("Enter Third Side:"))
def Equilateral(a,b,c):
    if(a==b and b==c and c==a):
        print("Triangle is Equilateral")
    else:
        print("Triangle is not Equilaterl")
Equilateral(side1,side2,side3)
```

Output:

A screenshot of a terminal window with a black background and white text. It shows the output of the program: 'Enter First Side:5', 'Enter Second Side:5', 'Enter Third Side:5', and 'Triangle is Equilateral'.

```
Enter First Side:5
Enter Second Side:5
Enter Third Side:5
Triangle is Equilateral
```

Program 8(A)

Aim: Write the Python functions for Linear search.

Source Code:

```
arr=[2,10,7,5,3,4,9,6,1]
target=int(input("Enter Number you want to search:"))
def Linear(arr):
    for i in range(len(arr)):
        if(arr[i]==target):
            return i
    return -1
result=Linear(arr)
if(result==-1):
    print(f"Target {target} is not found in array")
else:
    print(f"The Target Value {target} is found at {result}")
```

Output:

```
Enter Number you want to search:4
The Target Value 4 is found at 5
```

Program 8(B)

Aim: Write the Python functions for Binary search.

Source Code:

```
arr=[1,3,5,7,9,10,13,23]
size=len(arr)
target=int(input("Enter Number you want to search:"))
def binary(arr,size,target):
    l=0
    h=size-1
    while l<=h:
        mid=(l+h)//2
        if(arr[mid]<target):
            l=mid+1
        elif(arr[mid]>target):
            h=mid-1
        else:
            return mid
    return -1
result=binary(arr,size,target)
if(result==-1):
    print(f"Target {target} is not found in array")
else:
    print(f"The Target Value {target} is found at {result}")
```

Output:

```
Enter Number you want to search:10
The Target Value 10 is found at 5
```

Program 8(C)

Aim: Write the Python functions for Selection sort.

Source Code:

```
a=[]

for i in range(0,5):

    b=int(input("Enter Elements:"))

    a.append(b)

print("Array before sorting:")

for i in range (0,5):

    print(a[i] , end=" ")

def selection(a):

    for i in range (0,5):

        for j in range (i,5):

            if a[i]>a[j]:

                temp=a[i]

                a[i]=a[j]

                a[j]=temp

    return a

result=selection(a)

print("\nArray after sorting:")

print(result)
```

Output:

```
Enter Elements:9
Enter Elements:6
Enter Elements:4
Enter Elements:3
Enter Elements:1
Array before sorting:
9 6 4 3 1
Array after sorting:
[1, 3, 4, 6, 9]
```

Program 8(D)

Aim: Write the Python functions for Bubble sort.

Source Code:

```
a=[]

for i in range(0,5):

    b=int(input("Enter Elements:"))

    a.append(b)

print("Array before sorting:")

for i in range (0,5):

    print(a[i] , end=" ")

def Bubble(a):

    for i in range (0,5):

        for j in range (0,4):

            if a[j]>a[j+1]:

                temp=a[j]

                a[j]=a[j+1]

                a[j+1]=temp

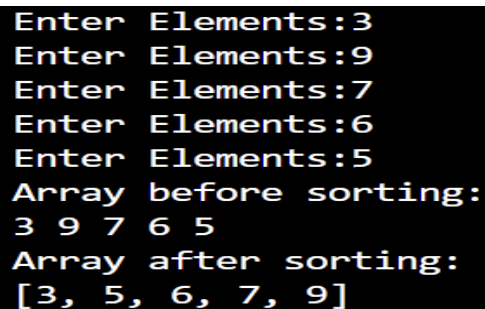
    return a

result=Bubble(a)

print("\nArray after sorting:")

print(result)
```

Output:



```
Enter Elements:3
Enter Elements:9
Enter Elements:7
Enter Elements:6
Enter Elements:5
Array before sorting:
3 9 7 6 5
Array after sorting:
[3, 5, 6, 7, 9]
```

Program 8(E)

Aim: Write the Python functions for Insertion sort.

Source Code:

```
a=[]
for i in range(0,5):
    b=int(input("Enter Elements:"))
    a.append(b)
print("Array before sorting:")
for i in range (0,5):
    print(a[i] , end=" ")
def insertion(a):
    for i in range (0,5):
        for j in range (0,i):
            if a[i]<a[j]:
                temp=a[i]
                a[i]=a[j]
                a[j]=temp
    return a
result=insertion(a)
print("\nArray after sorting:")
print(result)
```

Output:

```
Enter Elements:5
Enter Elements:4
Enter Elements:3
Enter Elements:1
Enter Elements:8
Array before sorting:
5 4 3 1 8
Array after sorting:
[1, 3, 4, 5, 8]
```

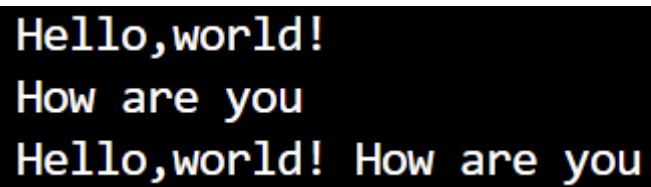
Program 9

Aim: Write program in Python using Strings.

Source Code:

```
str1="Hello,world! "  
print(str1)  
str2="How are you?"  
print(str2)  
# Concatenating two Strings  
print(str1+str2)
```

Output:

A screenshot of a terminal window with a black background and yellow text. It displays the output of the Python program: "Hello,world! ", "How are you", and "Hello,world! How are you".

```
Hello,world!  
How are you  
Hello,world! How are you
```