

Expt. Name _____

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Program - 1

* Aim:

Resume making using HTML language.

* Code:

```
<!DOCTYPE html>
<html lang = "en">
<body>
    <h1> RESUME </h1>
    <h2> Pabak Kapahi </h2>
    <img src = "image.jpg" style = "width: 100px ; height: 150px" >
    <p class = "head" > Qualification </p>
    <ul>
        <li> B.Tech - CSE (DS & AI) (III year) , SRM University </li>
        <li> Senior Secondary - K.R. Mangalam World School, Delhi </li>
        <li> Secondary - K.R. Mangalam World School, Delhi </li>
    </ul>
    <p class = "head" > Skills </p>
    <ul>
        <li> Programming languages - C , C++ , Python , R. </li>
        <li> Database - MySQL </li>
        <li> Web Development - HTML , CSS </li>
        <li> IDE - Turbo C++ , Anaconda , VS Code. </li>
    </ul>
    <p class = "head" > Personal Projects </p>
    <ul>
        <li> Calculator using C++ </li>
        <li> Resume using Web Development </li>
    </ul>
```

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<p class = "head"> Certificates </p>

 R programming by Udemy

 Python by Skillsoft

 ML using R by Udemy

<p class = "head"> Achievements </p>

 Chairman's medal in 12th for becoming scholar
for consecutive 5 years.

 Maths Topper in 12th with 99 / 100 marks.

<p class = "head"> Languages known </p>

 English - Full proficiency

 Hindi - Full proficiency

 French - Low proficiency

<p class = "head"> Extra Curriculum </p>

 Core Member of GDSC

<p class = "head"> Interests </p>

 Music

 games like badminton & chess

 travelling

</body>

</html>

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Program-2+ Aim:

Registration form using HTML language.

+ Code:

```

<!DOCTYPE html>
<html lang = "en">
<body>
    <form action = "action-page.php">
        <div class = "container">
            <h1> Register </h1>
            <p> Please fill this form to create an account. </p>
            <br>

            <label for = "email" ><b> Email </b> </label>
            <input type = "text" placeholder = "Enter Email"
                   name = "email" id = "email" required >

            <label for = "psw" ><b> Password </b> </label>
            <input type = "password" placeholder = "Enter Password"
                   name = "psw" id = "psw" required >

            <label for = "psw-repeat" ><b> Repeat Password </b> </label>
            <input type = "password" placeholder = "Repeat Password"
                   name = "psw-repeat" id = "psw-repeat" required >
            <br>

            <p> By creating an account you agree to our
    
```

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` Terms & Privacy . </p>
<button type="submit" class="registerbtn">
Register </button>
</div>`

`<div class="container signin">
<p> Already have an account? Signin
. </p>
</div>`

`</form>
</body>
</html>`

Program - 3* Aim:

Illustration of CSS cases.

* Code:⇒ Inline CSS

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Inline CSS </title>
</head>
<body>
    <p style="color: blue; font-size: 16px; font-style: italic;
               text-align: center;">
        Inline CSS
    </p>
</body>
</html>
```

⇒ Internal / Embedded CSS

```
<!DOCTYPE html>
<html>
<head>
    <title>Internal CSS </title>
    <style>
        .main {
            text-align: center;
        }
    </style>

```

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- topic {
color: red;
font-size: 50px;
font-weight: bold;
}

- content {
font-style: bold;
font-size: 20px;
}

</style>

</head>

<body>

```
<div class = "main">  
  <div class = "topic"> Internal CSS </div>  
  <div class = "content"> This is done using Internal CSS  
  </div>  
</div>
```

</body>

</html>

2) External CSS→ HTML file

```
<!DOCTYPE html>  
<html>  
  <head>  
    <link rel = "stylesheet" href = "style.css">  
  </head>
```

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```
<body>
  <div class="main">
    <div class="topic"> External CSS</div>
    <div id="content"> This is done using External CSS
  </div>
</div>
</body>
</html>
```

→ style.css (stylesheet)

```
body {
  background-color: yellow;
}
.main {
  text-align: center;
}
.topic {
  color: blue;
  font-size: 50px;
  font-weight: bold;
}
#content {
  font-style: bold;
  font-size: 20px;
}
```

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Program-4★ Aim:

Program to check Even or Odd using C.

► Code:

```
#include <stdio.h>

int main ()
{
    int num;
    printf ("Enter an integer :");
    scanf ("%d", &num);

    if (num % 2 == 0)
        printf ("%d is even.", num);
    else
        printf ("%d is odd.", num);

    return 0;
}
```

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Program - 5

* Aim:

N light bulbs are connected by a wire. Each bulb has a switch associated with it, however due to faulty wiring, a switch also changes the state of all the bulbs to the right of current bulb. Given an initial state of all bulbs, find the minimum no. of switches you have to press to turn on all the bulbs, using C. 0 represents the bulb is off & 1 represents the bulb is on.

* Code:

#include <stdio.h>

```

int bulbs(int a[], int n)
{
    int count = 0;
    for (int i = 0; i < n; i++)
    {
        if (a[i] == 1 && count % 2 == 0)
            continue;

        else if (a[i] == 0 && count % 2 != 0)
            continue;

        else if (a[i] == 1 && count % 2 != 0)
            count++;

        else if (a[i] == 0 && count % 2 == 0)
            count++;
    }
}

```

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```
    return count;
```

```
}
```

```
int main()
```

```
{
```

```
    int states[] = { 0, 1, -1, 1 };
```

```
    int n = sizeof( states ) / sizeof( states[0] );
```

```
    printf( "Minimum no. of switches needed are %d", bulbs( states, n ) );
```

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Program -6* Aim:

Program to check Prime Number using C.

+ Code:

#include <stdio.h>

int main()

{

 int n, i, flag = 0;
 printf ("Enter a positive integer : ");
 scanf ("%d", &n); if (n == 0 || n == 1)
 flag = 1;

for (i = 2; i <= n / 2; i++)

 {
 if (n % i == 0) flag = 1;
 break;

}

}

if (flag == 0)

printf ("%d is a prime number : ", n);

else

printf ("%d is not a prime number : ", n);

}

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Program - 7* Aim :

Program for Kadane's algorithm. using C++.

* Code :

#include <iostream>

#include <stdio.h>

int maxSubArraySum(int a[], int size)

{

int max-sum = INT_MIN, sum = 0;

for (int i=0; i<size; i++)

{

sum += a[i];

if (max-sum < sum)

max-sum = sum;

if (sum < 0)

sum = 0;

}

return max-sum;

}

int main()

{

int a[] = { -2, -3, 4, 1, 2, -5, 3 };

int n = sizeof(a) / sizeof(a[0]);

int max-sum = maxSubarraySum(a, n);

cout << "Maximum Contiguous sum is " << max-sum;

return 0;

}

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