

Third Year B. Tech., Sem V 2021-22

Programming Lab 3

Lab course coordinator:

Assignment / Journal submission

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PRN No. : 2019BTECS00046

Practical No. 5B (Batch – T6)

To design and develop web pages using HTML fundamental and formatting elements

Problem Statement 1:

Design and develop a static web page using HTML for Blockchain blog. Access it locally and in LAN using a web server.

It should have following sections:

1. Header – Title and authorship information of a blog
2. Three links to other technical blogs
3. Article – At least two articles should be there
4. Contact Information of author

It should have following tags:

1. Use semantic tags appropriately (**<section>**, **<header>**, **<footer>**, **<article>**, **<aside>** and **<nav>**)
2. Use **<h1>** to **<h6>** tags at least once.
3. Use a single **line break** tag.
4. Use **<a>** tags in the articles with the absolute and relative URLs.
5. Use **thematic grouping** for different sections and articles using **<hr>** tag.
6. Use **** and **** instead of **** and **<i>** resp.
7. Use **<address>** tag for displaying author's information.

Snapshot



Problem Statement 2:

Design and develop a static web page using HTML for following requirements. Access it locally and in LAN using a web server.

It should have following sections:

1. Problem Statement: Write a code in any programming language that convert the Binary number to Decimal Number..
2. Code
3. Sample Input
4. Sample Output
5. Variables used in the program
6. Complexity

It should have following tags:

1. Use semantic tags appropriately (<section>, <header>, <footer>, <article>, <aside> and <nav>)
2. Use <code>, <samp>, <kbd>, and <var> at least once.
3. Use <s>, <small>, <sub> and <sup> at least once.
4. Use <h1> to <h6> tags at least once.
5. Use a single line break tag.
6. Use thematic grouping for different sections using <hr> tag.
7. Add the reference link for the algorithm using <a> tag.

Snapshot

// C program to convert Binary number to Decimal number.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    // declaration of variables
    int num, binary_num, decimal_num = 0, base = 1, rem;
    printf (" Enter a binary number with the combination of 0s and 1s \n");
    scanf ("%d", &num); // accept the binary number (0s and 1s)

    binary_num = num; // assign the binary number to the binary_num variable

    while ( num > 0)
    {
        rem = num % 10; /* divide the binary number by 10 and store the remainder in rem variable. */
        decimal_num = decimal_num + rem * base;
        num = num / 10; // divide the number with quotient
        base = base * 2;
    }

    printf (" \n The decimal number is %d \t", decimal_num); // print the decimal
    getch();
}
```

Time Complexity : $O(\log(n) \text{ base } 10)$

Sample Input	Sample Output
Enter a binary number with the combination of 0s and 1s 1011	The decimal number is 11

Problem Statement 3:

Design and develop a static web page using HTML for following requirements. Access it locally and in LAN using a web server.

It should have following sections:

1. Any three quotes from <https://www.brainyquote.com/> with the name of the person who quoted it.

It should have following tags

1. Use semantic tags appropriately (<section>, <header>, <footer>, <article>, <aside> and <nav>)
2. Use <blockquote> and <quote> tags.
3. Use <h1> to <h6> tags at least once.
4. Use a single **line break** tag.
5. Use **thematic grouping** for different sections using <hr> tag.
6. Add the reference link using <a> tag.

Snapshot

“Inspirational Quotes”

The best and most beautiful things in the world cannot be seen or even touched - they must be felt with the heart.

-Helen Keller

Start by doing what's necessary; then do what's possible; and suddenly you are doing the impossible.

-Francis of Assisi

Perfection is not attainable, but if we chase perfection we can catch excellence.

-Vince Lombardi

Today I choose life. Every morning when I wake up I can choose joy, happiness, negativity, pain... To feel the freedom that comes from being able to continue to make mistakes and choices - today I choose to feel life, not to deny my humanity but embrace it.

-Kevyn Aucoin

[For More Quotes](#)

Link URL :

[https://github.com/13aniket11/13aniket11.github.io/tree/main/PL3_2019BT
ECS00046_5B](https://github.com/13aniket11/13aniket11.github.io/tree/main/PL3_2019BT_ECS00046_5B)