UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY : A GLOBAL CO2 EMISSION ANALYSIS

PROJECT SUBMITTED TO BHARATHIYAR UNIVERSITY FOR NAAN MUDHALVAN SCHEME

FOR THE AWARD OF THE DEGREE OF

B.Sc.PHYSICS

Submitted By

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ERODE-638004

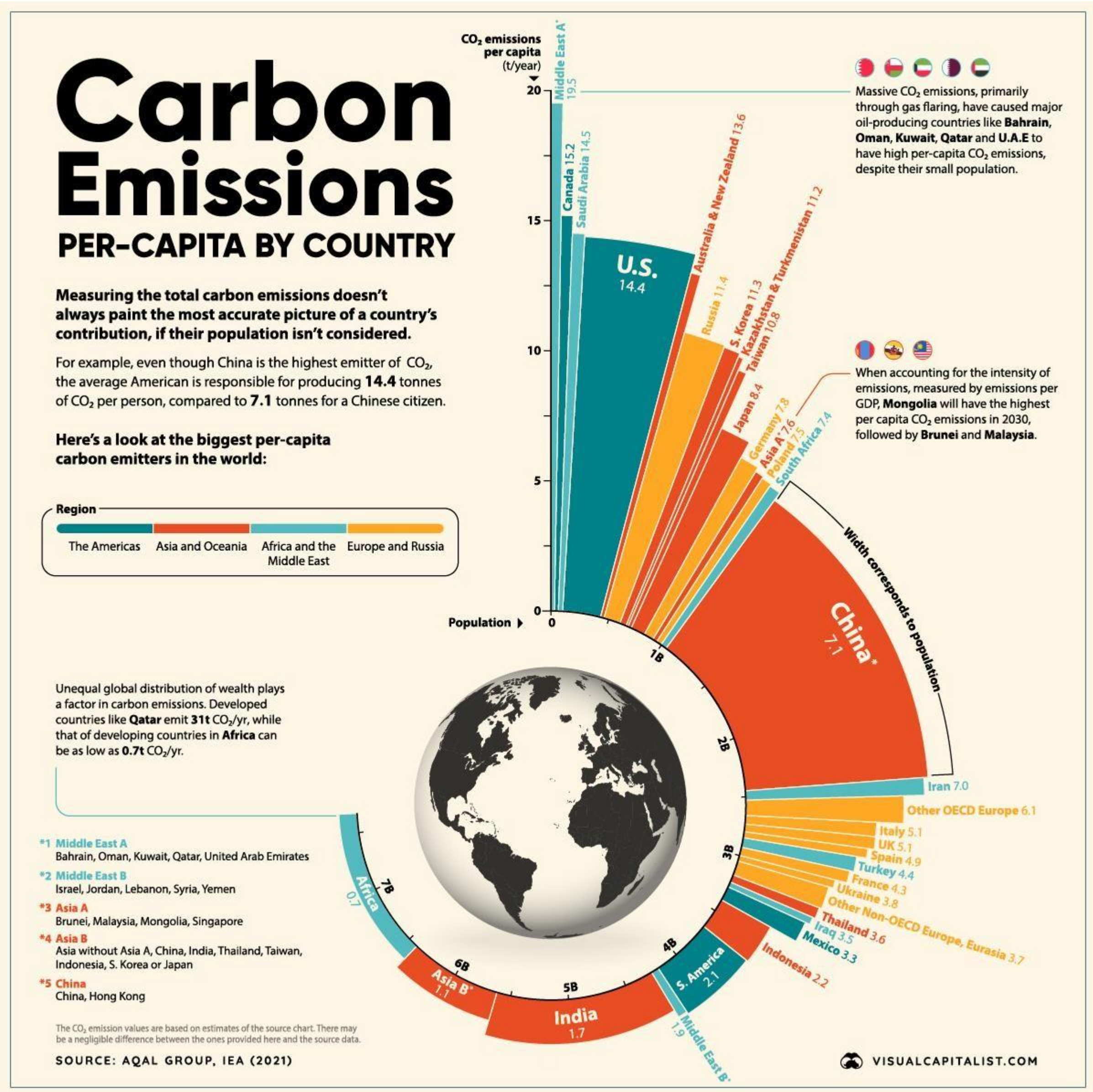
APRIL-2023

1. INTRODUCTION:

• overview:

Global warming is one of the biggest challenges currently being faced by the human race, although correlation is not causation, a likely cause of global warming is due to increased atmospheric carbon dioxide from human activities. **CO2 Emission** refers to the Carbon Dioxide emitted throughout the world. For this analysis we will be focusing on CO2 Emissions and its effect on the world we live in as well as some key factors and stats that may play a role in the emission of CO2 globally. Fossil fuel use is the primary source of CO2. The data throws light onto how much fossil fuels are burnt, per year per nation, which amounts to an increase in CO2 every year. This will help researchers and environment experts to predict global warming. So countries should set a goal to decrease this amount yearly.

Analysing Global Co2 Emission across countries from 1975 to 2020. This dataset contains a record of Co2 Emission by each Country and Region of Earth, here we are going to analyse and visualise Country wise,



Region wise and Overall Co2 Emission on Earth.

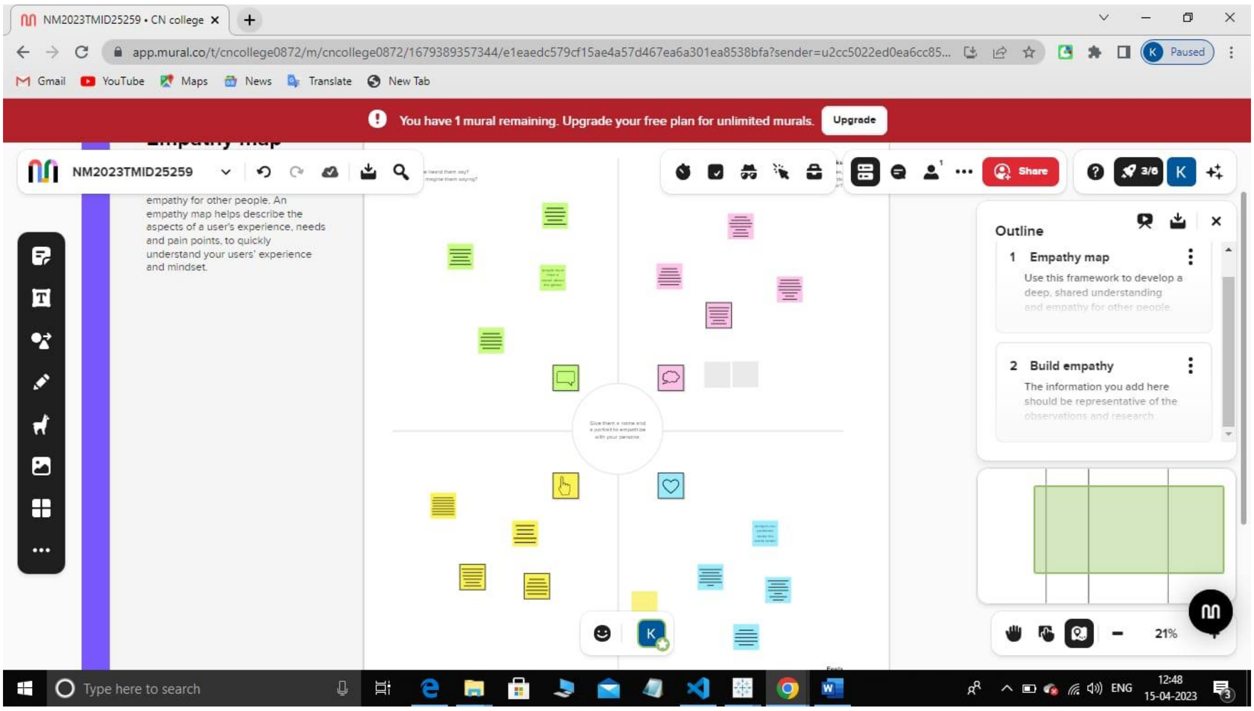
- ## PURPOSE:

The carbon (and oxygen) in CO_2 can be used as an alternative to fossil fuels in the production of chemicals, including plastics, fibres and synthetic rubber. As with CO_2-derived fuels, converting CO_2 to methanol and methane is the most technologically mature pathway. The methanol can be subsequently converted into other carbon-containing high-value chemical intermediates such as olefins, which are used to manufacture plastics, and aromatics, which are used in a range of sectors including health and hygiene, food production and processing.

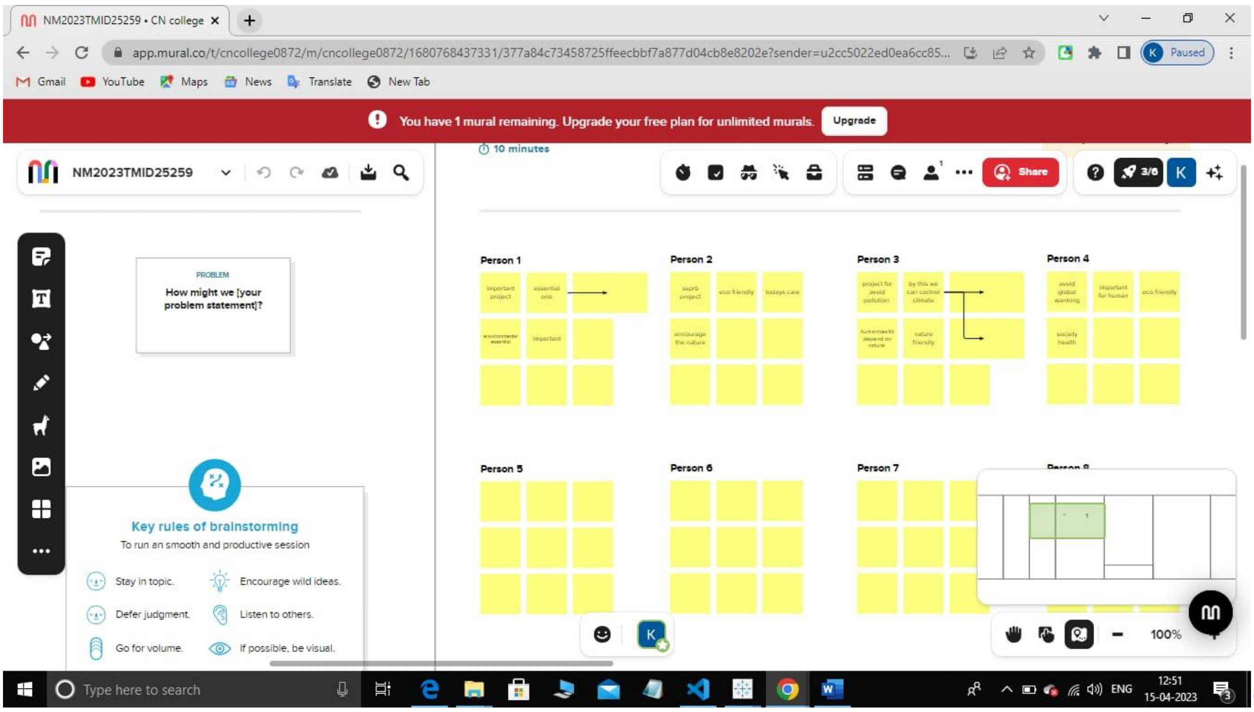
A special group of chemicals, polymers, are used in the production of plastics, foams and resins. The carbon in CO_2 can be used in polymer production by replacing part of the fossil fuel-based raw material in the manufacturing process. Unlike the conversion of CO_2 to fuels and chemical intermediates, polymer processing with CO_2 requires little energy input, because CO_2 is converted into a molecule with an even lower energy state (carbonate). A number of companies are currently operating polymer plants using CO_2 as a raw material.

2. PROBLEM DEFINITION& DESIGN THINKING:

EMPATHY MAP

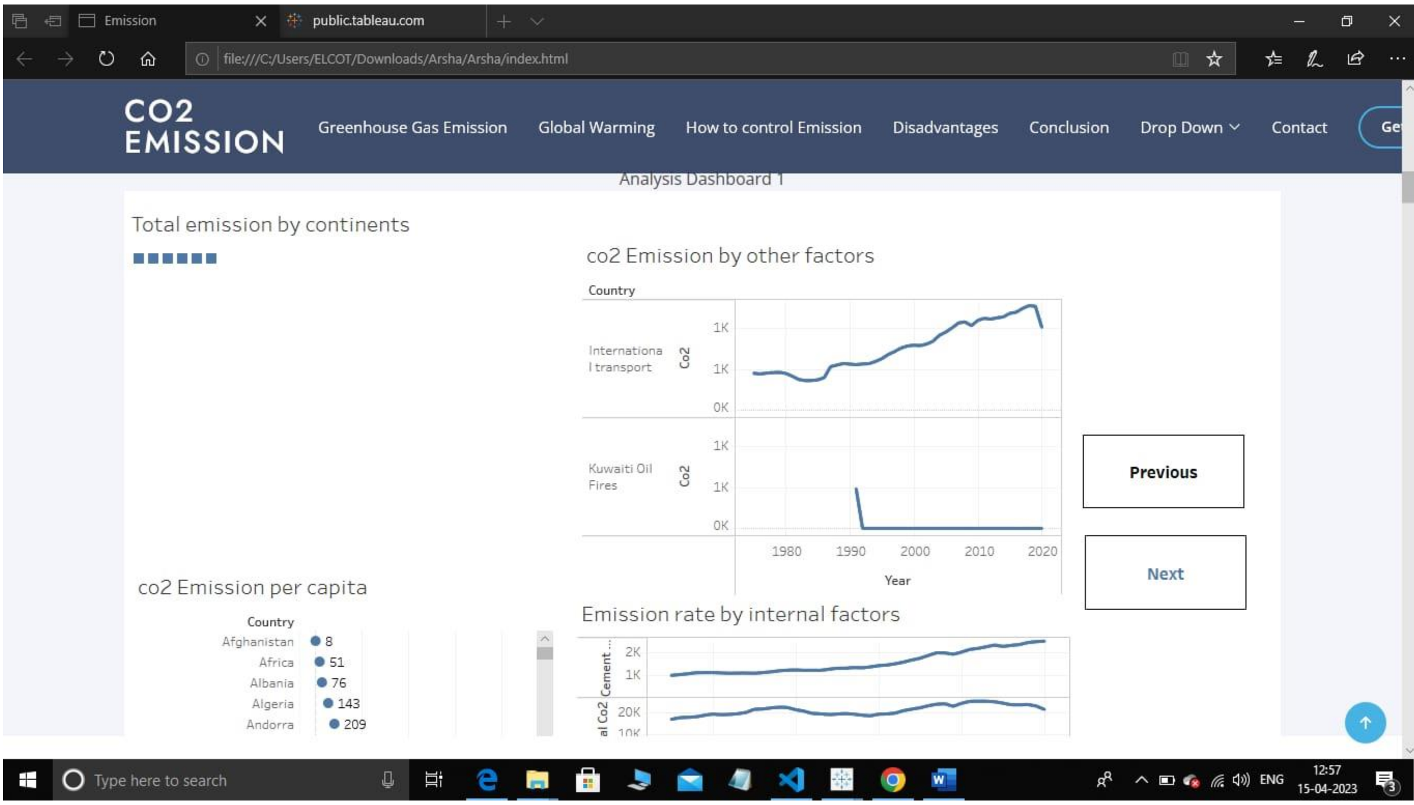


IDEATION & BRAINTORMING MAP

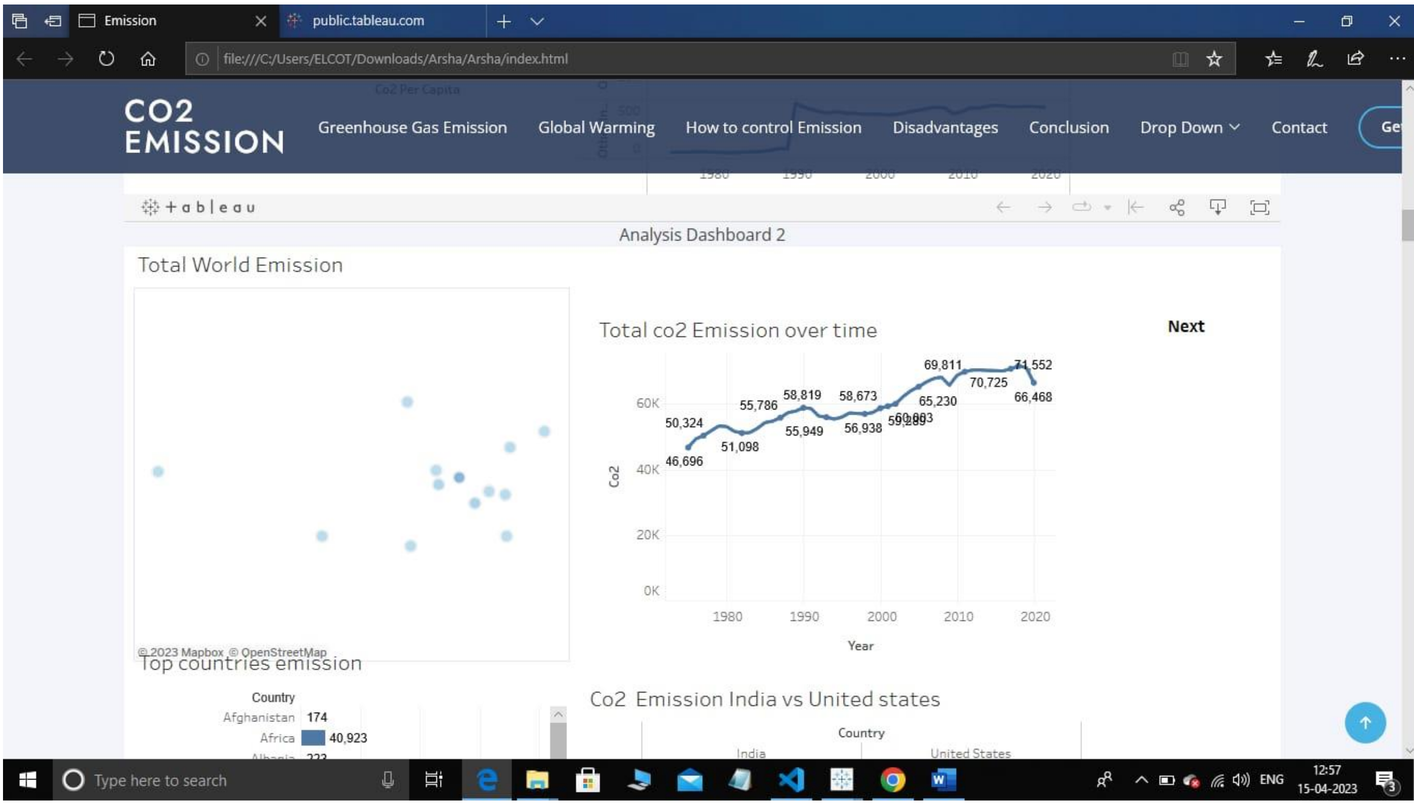


&

3.RESULT



CO2 EMISSION
Greenhouse Gas Emission
Global Warming
How to control Emission
Disadvantages
Conclusion
Drop Down
Contact
Analysis Dashboard 1
Total emission by continents
co2 Emission by other factors
International transport
Kuwaiti Oil Fires
Year
Previous
Next
co2 Emission per capita
Country
Afghanistan 8
Africa 51
Albania 76
Algeria 143
Andorra 209
Emission rate by internal factors



CO2 EMISSION
Greenhouse Gas Emission
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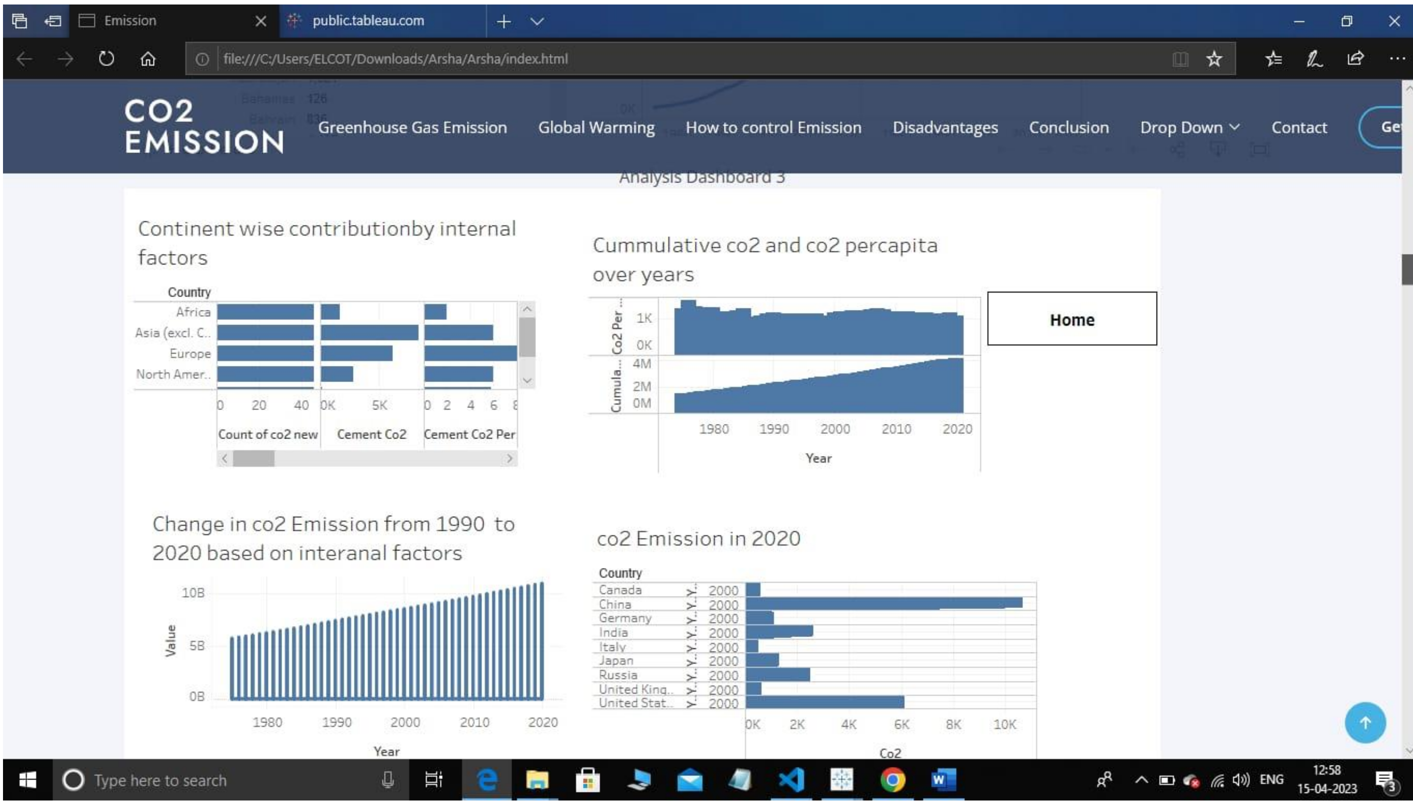
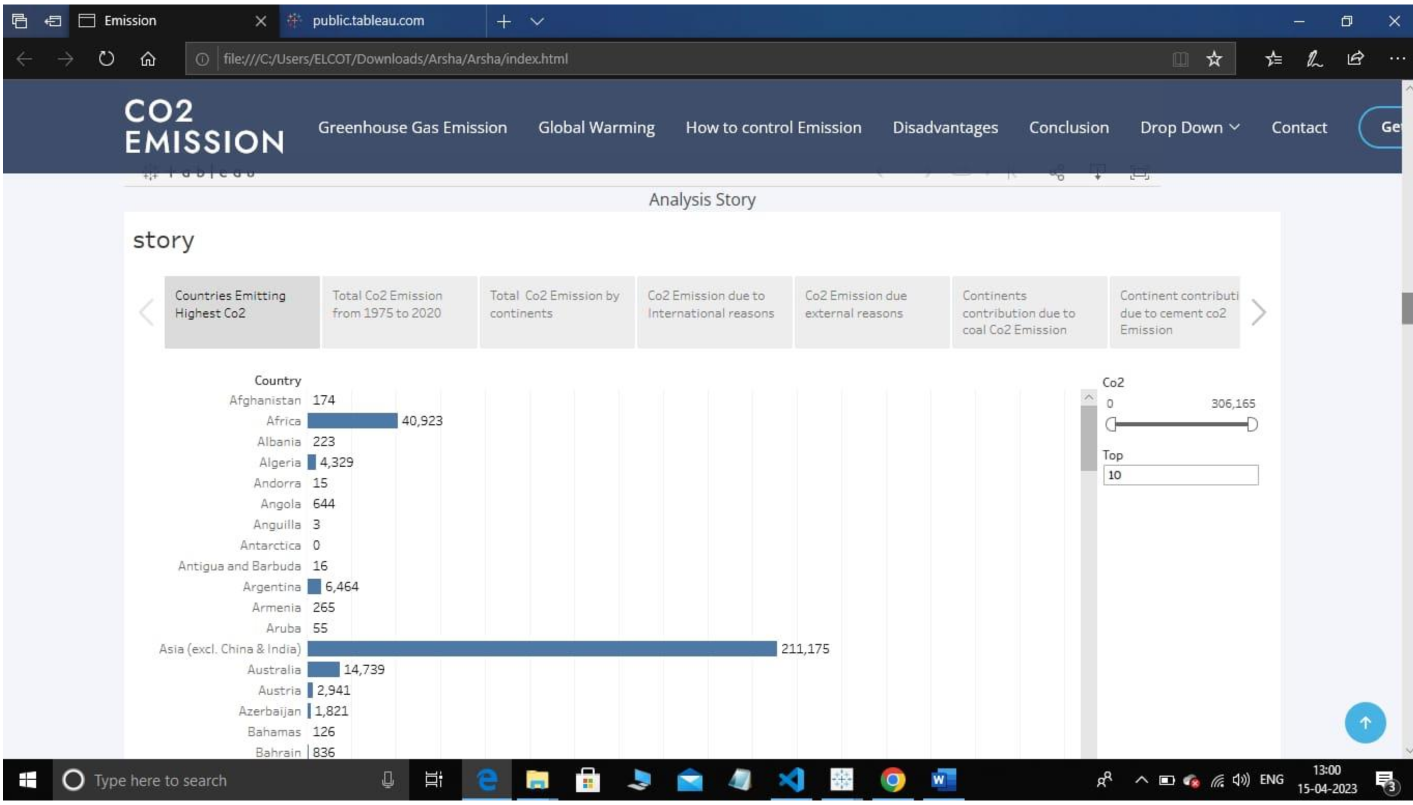
Drop Down
Contact
Analysis Dashboard 2
Total World Emission
Total co2 Emission over time
Next
Year
Top countries emission
Country
Afghanistan 174
Africa 40,923
Co2 Emission India vs United states


CO2 EMISSION
Greenhouse Gas Emission
Global Warming
How to control Emission
Disadvantages
Conclusion
Drop Down
Contact
Analysis Dashboard 3
Continent wise contributionby internal factors
Cummulative co2 and co2 percapita over years
Home
Change in co2 Emission from 1990 to 2020 based on interanal factors
co2 Emission in 2020
Type here to search

STORY


CO2 EMISSION
Greenhouse Gas Emission
Global Warming
How to control Emission
Disadvantages
Conclusion
Drop Down
Contact
Analysis Story
story
Countries Emitting Highest Co2
Total Co2 Emission from 1975 to 2020
Total Co2 Emission by continents
Co2 Emission due to International reasons
Co2 Emission due external reasons
Continents contribution due to coal Co2 Emission
Continent contributi due to cement co2 Emission
Country
Afghanistan 174
Africa 40,923
Albania 223
Algeria 4,329
Andorra 15
Angola 644
Anguilla 3
Antarctica 0
Antigua and Barbuda 16
Argentina 6,464
Armenia 265
Aruba 55
Asia (excl. China & India) 211,175
Australia 14,739
Austria 2,941
Azerbaijan 1,821
Bahamas 126
Bahrain 836
Co2
Top
10
Type here to search

WEB INTEGRATION

- ## DISADVANTAGES:

Low CO_2 concentration affects the capture efficiency.

Temperature associated heat transfer problem and efficiency decay issues associated with the use of hydrogen-rich gas turbine fuel; high parasitic power requirement for sorbent regeneration; inadequate experience due to few gasification plants currently operated in the market; high capital and operating costs for current sorption systems; High efficiency drop and energy penalty; cryogenic O_2 production is costly; corrosion problem may arise.

Process is still under development and inadequate large scale operation experience.

3. APPLICATIONS:

1. CO2-derived chemicals:

The carbon (and oxygen) in CO_2 can be used as an alternative to fossil fuels in the production of chemicals, including plastics, fibres and synthetic rubber. As with CO_2-derived fuels, converting CO_2 to methanol and methane is the most technologically mature pathway. The methanol can be subsequently converted into other carbon-containing high-value chemical intermediates such as olefins, which are used to manufacture plastics, and aromatics, which are used in a range of sectors including health and hygiene, food production and processing.

2. Building materials from minerals and CO2:

CO_2 can be used in the production of building materials to replace water in concrete, called CO_2 curing, or as a raw material in its constituents (cement and construction aggregates). These applications involve the reaction of CO_2 with calcium or magnesium to form low-energy carbonate molecules, the form of carbon that makes up concrete (Figure 7). CO_2-cured concrete is one of the most mature and promising applications of CO_2 use, while the integration of CO_2 in the production of cement itself is at an earlier stage of development.

3. Building materials from waste and CO2:

Construction aggregates (small particulates used in building materials) can be produced by reacting CO_2 with waste materials from power plants or industrial processes. Among these are iron slag and coal fly ash, which would otherwise be stockpiled or stored in landfill (Figure 7). Producing building materials from waste and CO_2 can be competitive as it offsets the cost associated with conventional waste disposal.

4. CROP YIELD BOOSTING WITH CO2:

CO_2 can be used to enhance yields of biological processes, such as algae production and crop cultivation in greenhouses. The application of CO_2 with low-temperature heat in industrial greenhouses is the most mature yield-boosting application today, and can increase yields by 25% to 30%. The clear leader in the use of CO_2 in greenhouses is the Netherlands, with an estimated annual consumption between 5 and $MtCO_2$. Of this amount, approximately 500 $ktCO_2$ peryear comes from external sources, mainly industrial plants, with the balance taken from on-site gas-fired boilers or co-generation systems. The replacement of these on-site systems with other industrial CO_2 sources or with CO_2 captured directly from the atmosphere coulddeliver climate benefits.

5. CONCLUSION:

The rising level of atmospheric CO_2 could be the one global natural resource that is progressively increasing food production and total biological output, in a world of otherwise diminishing natural resources of land, water, energy, minerals, and fertilizer. It is a means of inadvertently increasing the productivity of farming systems and other photo synthetically active ecosystems. The effects know no boundaries and both developing and developed countries are, and will be, sharing equally, for "the rising level of atmospheric CO_2 is a universally free premium, gaining in magnitude with time, on which we all can reckon for the foreseeable future"

The relationship described above by where data pertaining to atmospheric CO_2 emissions, food production, and human population are plotted. Standardized to a value of unity in 1961, each of these datasets has experienced rapid and interlinked growth over the past five decades. Rising global population has led to rising CO_2 emissions and rising CO_2 emissions have benefited food production.

The very real positive externality of inadvertent atmospheric CO_2 enrichment *must* be considered in all studies examining the SCC; and its observationally-deduced effects *must* be given premier weighting over the speculative negative externalities presumed to occur in computer model projections of global warming. Until that time, little if *any* weight should be placed on current SCC calculations.

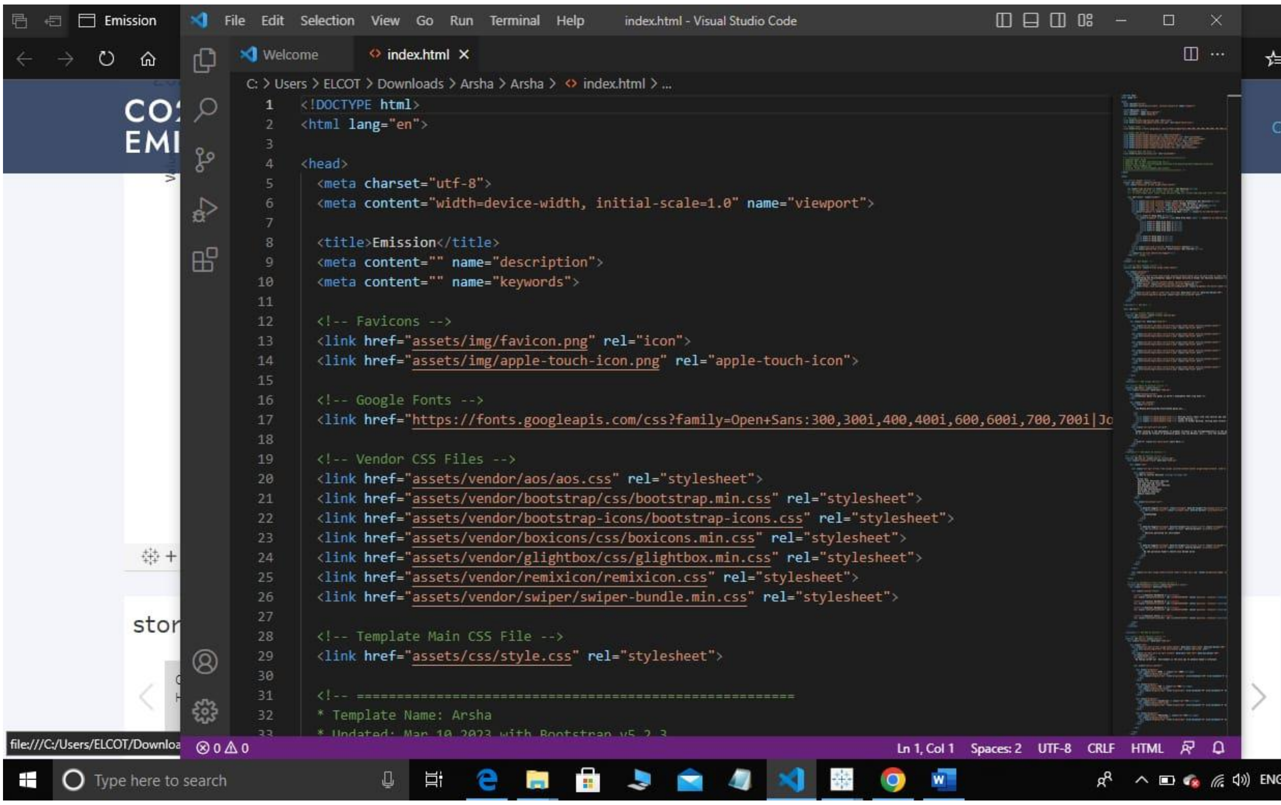
6. FUTURE SCOPE:

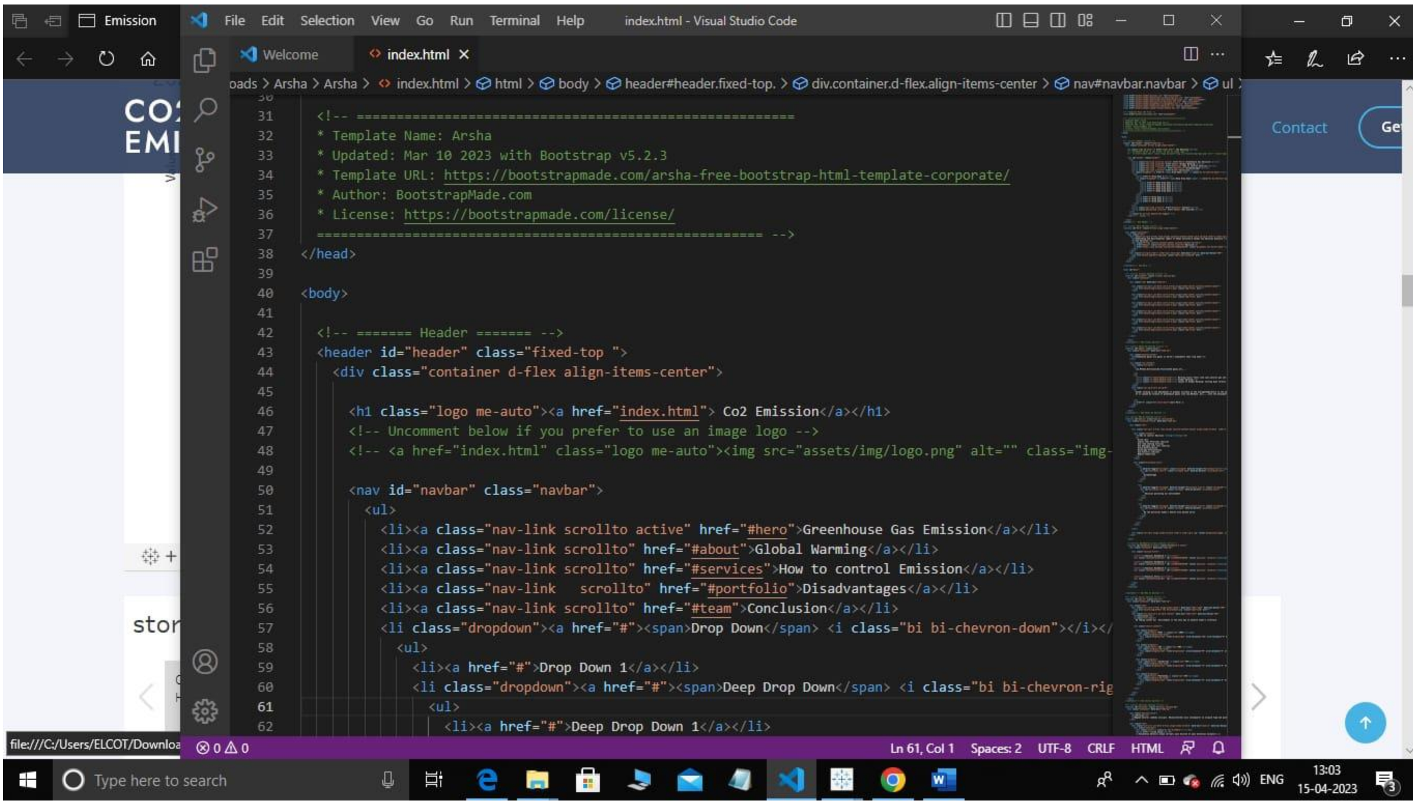
In the *Annual Energy Outlook 2022* (AEO2022) Reference case, which assumes no changes to current laws or regulations, the U.S. Energy Information Administration (EIA) projects that U.S. energy-related carbon dioxide (CO_2) emissions will fall to 4.5 billion metric tons in 2037, or 6% below the energy-related CO_2 emissions in 2021, before rising to 4.7 billion metric tons in 2050, or 2% below 2021 levels. Projected emissions decline from 2022 to 2037 primarily as a result of decreasing carbon intensity (CO_2 per unit of energy consumed) in the electric power sector. The rise in emissions from 2037 to 2050 is primarily due to increasing consumption. In the AEO2022 Reference case, U.S. energy consumption grows from 2021 through 2050 because of population growth of 0.4% per year and real economic growth of 2.2% per year. Over the projection period, increasing CO_2 emissions from natural gas and petroleum consumption growth will offset declines in CO_2 emissions from coal consumption.

World CO_2 emissions are projected to increase EIA's *International Energy Outlook 2021* (IEO2021) Reference case projects that if current policy and technology trends continue, global energy consumption and energy-related CO_2 emissions will increase from 2020 through 2050 as a result of population and economic growth. However, projected future growth in energy-related CO_2 emissions is not evenly distributed across the world, and the majority of the projected future growth in energy-related CO_2 emissions is among the group of countries outside the [Organization for Economic Cooperation and Development (OECD)](#).

7. APPENDIX:

• SOURCE CODE:




File Edit Selection View Go Run Terminal Help
index.html - Visual Studio Code
Emission
Welcome
index.html
oads > Arsha > Arsha > index.html > html > body > header#header.fixed-top. > div.container.d-flex.align-items-center > nav#navbar.navbar > ul
<!-- ===
* Template Name: Arsha
* Updated: Mar 10 2023 with Bootstrap v5.2.3
* Template URL: https://bootstrapmade.com/arsha-free-bootstrap-html-template-corporate/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
== -->
</head>
<body>
<!-- ======= Header ======= -->
<header id="header" class="fixed-top ">
<div class="container d-flex align-items-center">
<h1 class="logo me-auto"> Co2 Emission</h1>
<!-- Uncomment below if you prefer to use an image logo -->
<!-- <a href="index.html" class="logo me-auto"><img src="assets/img/logo.png" alt="" class="img-
<nav id="navbar" class="navbar">

Greenhouse Gas Emission
Global Warming
How to control Emission
Disadvantages
Conclusion
<li class="dropdown"><a href="#">Drop Down <i class="bi bi-chevron-down"></i></

Drop Down 1
<li class="dropdown"><a href="#">Deep Drop Down <i class="bi bi-chevron-rig

Deep Drop Down 1
Contact
Ln 61, Col 1 Spaces: 2 UTF-8 CRLF HTML
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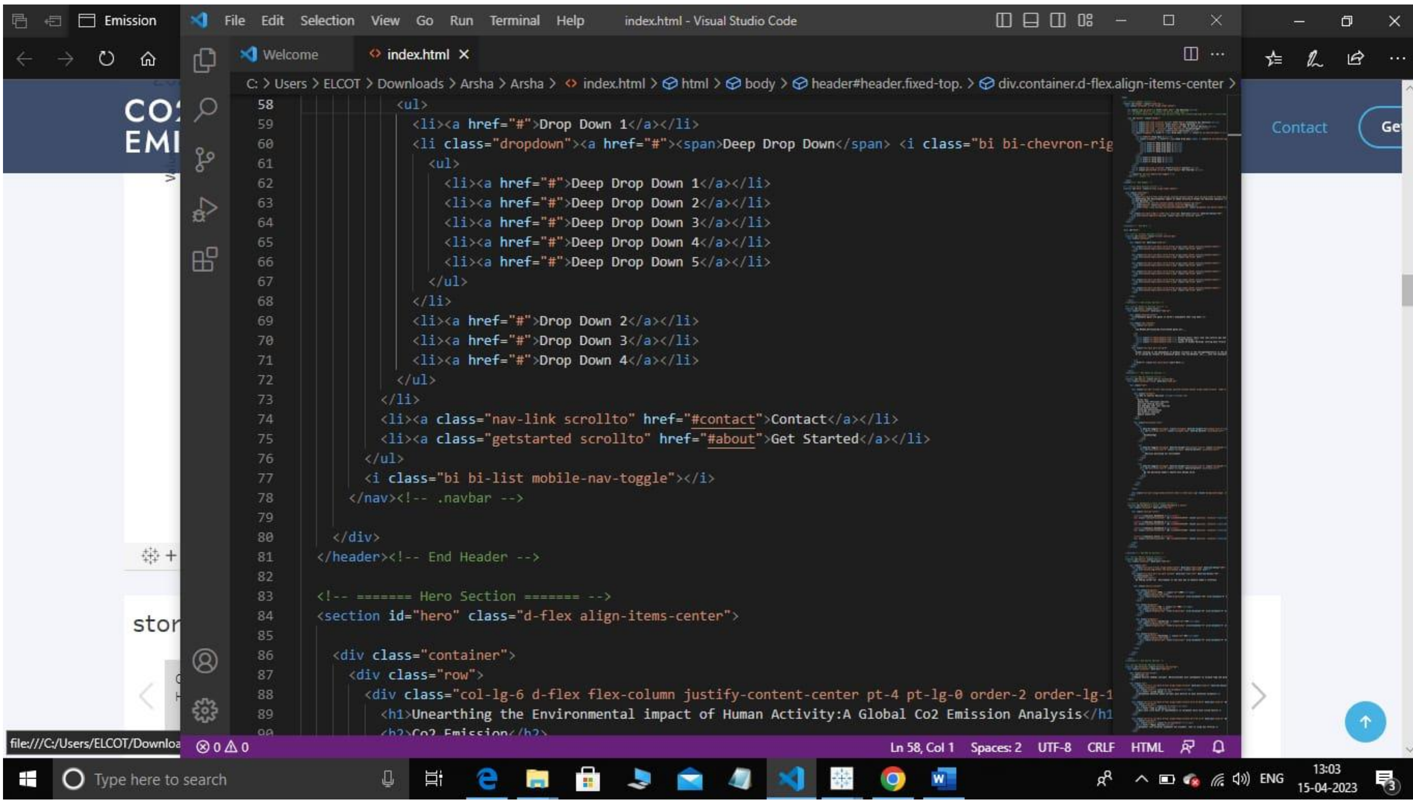
ENG
13:03
15-04-2023


index.html - Visual Studio Code
C: > Users > ELCOT > Downloads > Arsha > Arsha > index.html > html > body > header#header.fixed-top. > div.container.d-flex.align-items-center >

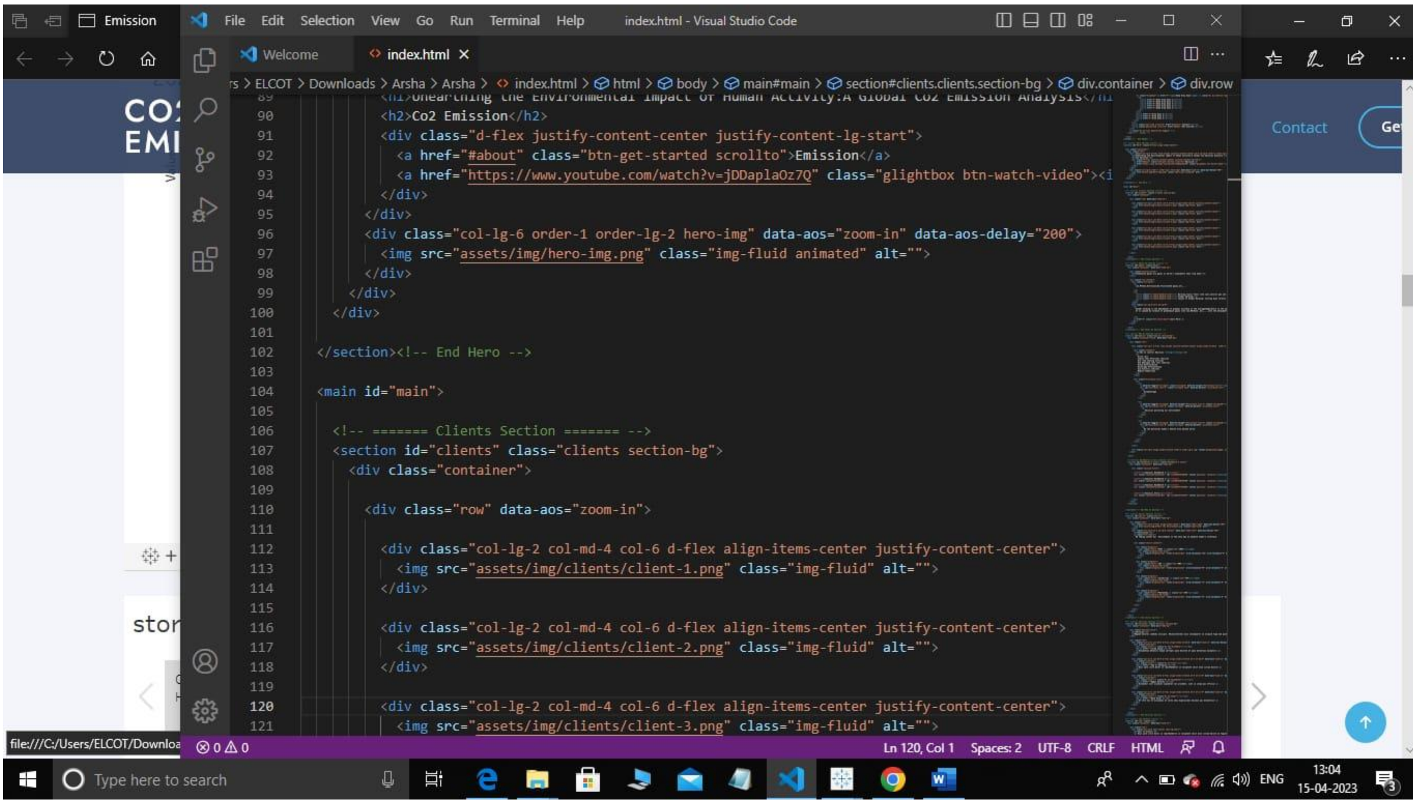
Drop Down 1
<li class="dropdown"><a href="#">Deep Drop Down <i class="bi bi-chevron-rig

Deep Drop Down 1
Deep Drop Down 2
Deep Drop Down 3
Deep Drop Down 4
Deep Drop Down 5

Drop Down 2
Drop Down 3
Drop Down 4

Contact
Get Started

<i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- .navbar -->
</div>
</header><!-- End Header -->
<!-- ======= Hero Section ======= -->
<section id="hero" class="d-flex align-items-center">
<div class="container">
<div class="row">
<div class="col-lg-6 d-flex flex-column justify-content-center pt-4 pt-lg-0 order-2 order-lg-1
<h1>Unearthing the Environmental impact of Human Activity:A Global Co2 Emission Analysis</h1
Ln 58, Col 1 Spaces: 2 UTF-8 CRLF HTML
Type here to search
13:03
15-04-2023



Emission
File Edit Selection View Go Run Terminal Help
index.html - Visual Studio Code
Welcome
index.html
rs > ELCOT > Downloads > Arsha > Arsha > index.html > html > body > main#main > section#clients.clients.section-bg > div.container > div.row
<h2>Co2 Emission</h2>
<div class="d-flex justify-content-center justify-content-lg-start">
Emission
<a href="https://www.youtube.com/watch?v=jDDaplaOz7Q" class="glightbox btn-watch-video">
</div>
</div>
<div class="col-lg-6 order-1 order-lg-2 hero-img" data-aos="zoom-in" data-aos-delay="200">
<img src="assets/img/hero-img.png" class="img-fluid animated" alt="">
</div>
</div>
</div>
</section><!-- End Hero -->
<main id="main">
<!-- ======= Clients Section ======= -->
<section id="clients" class="clients section-bg">
<div class="container">
<div class="row" data-aos="zoom-in">
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-1.png" class="img-fluid" alt="">
</div>
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-2.png" class="img-fluid" alt="">
</div>
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-3.png" class="img-fluid" alt="">
Contact
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ENG
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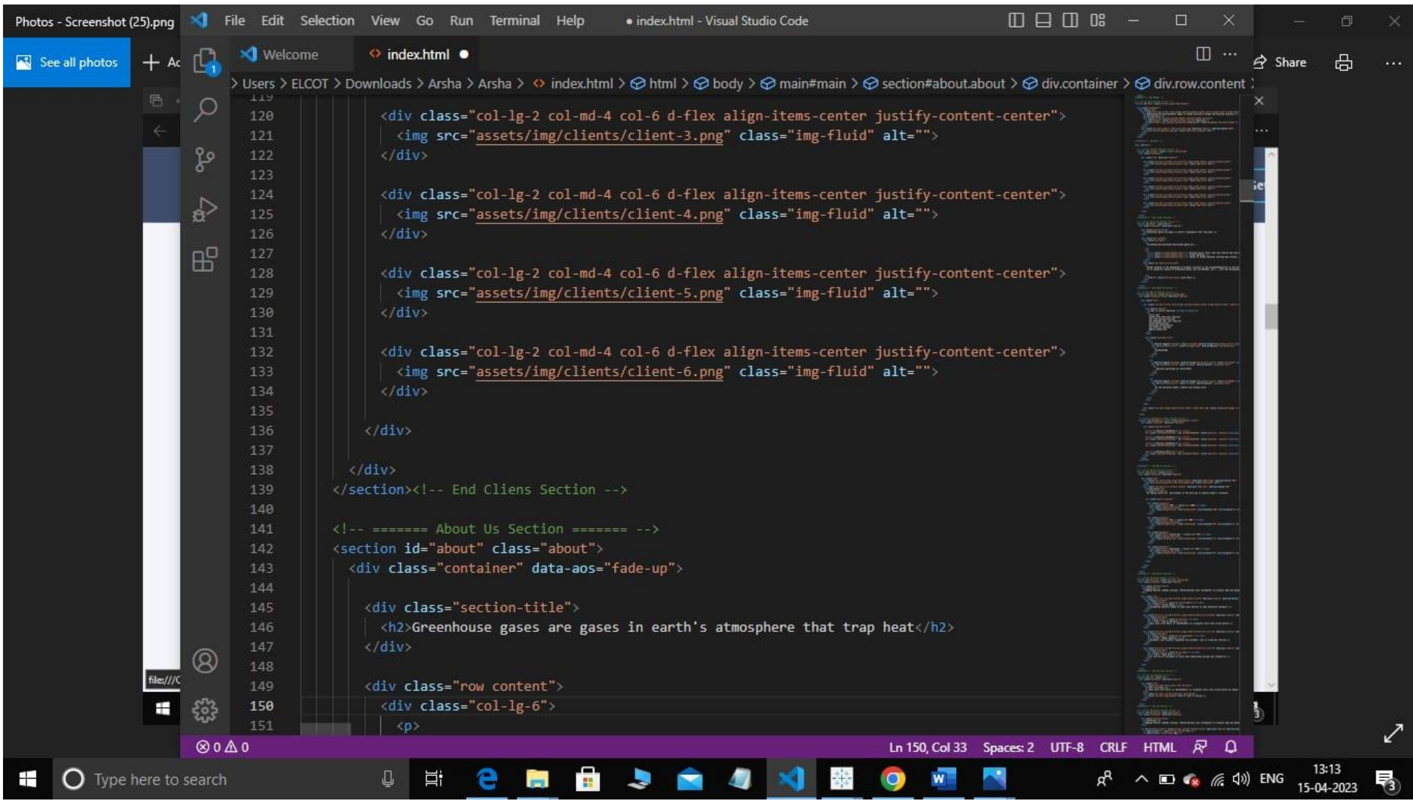
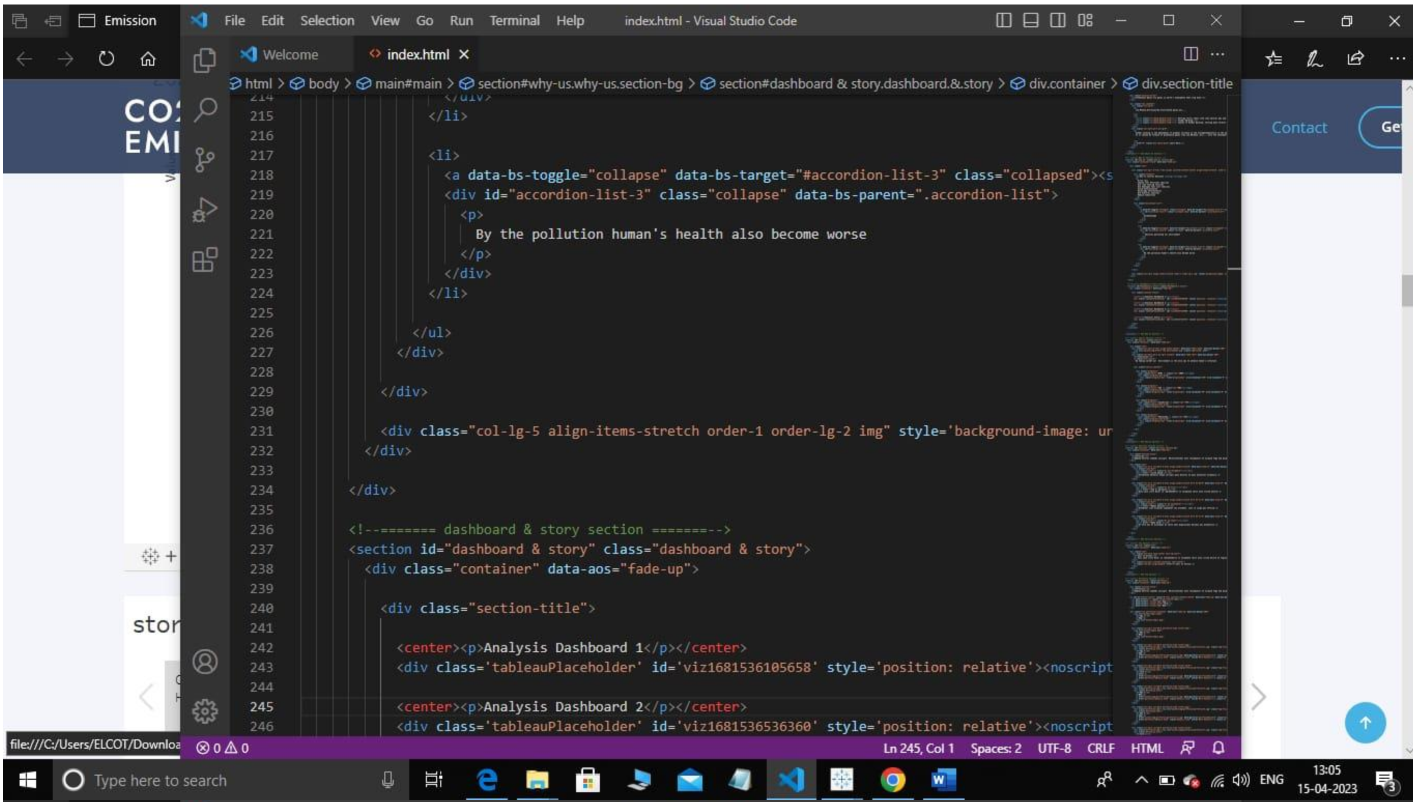
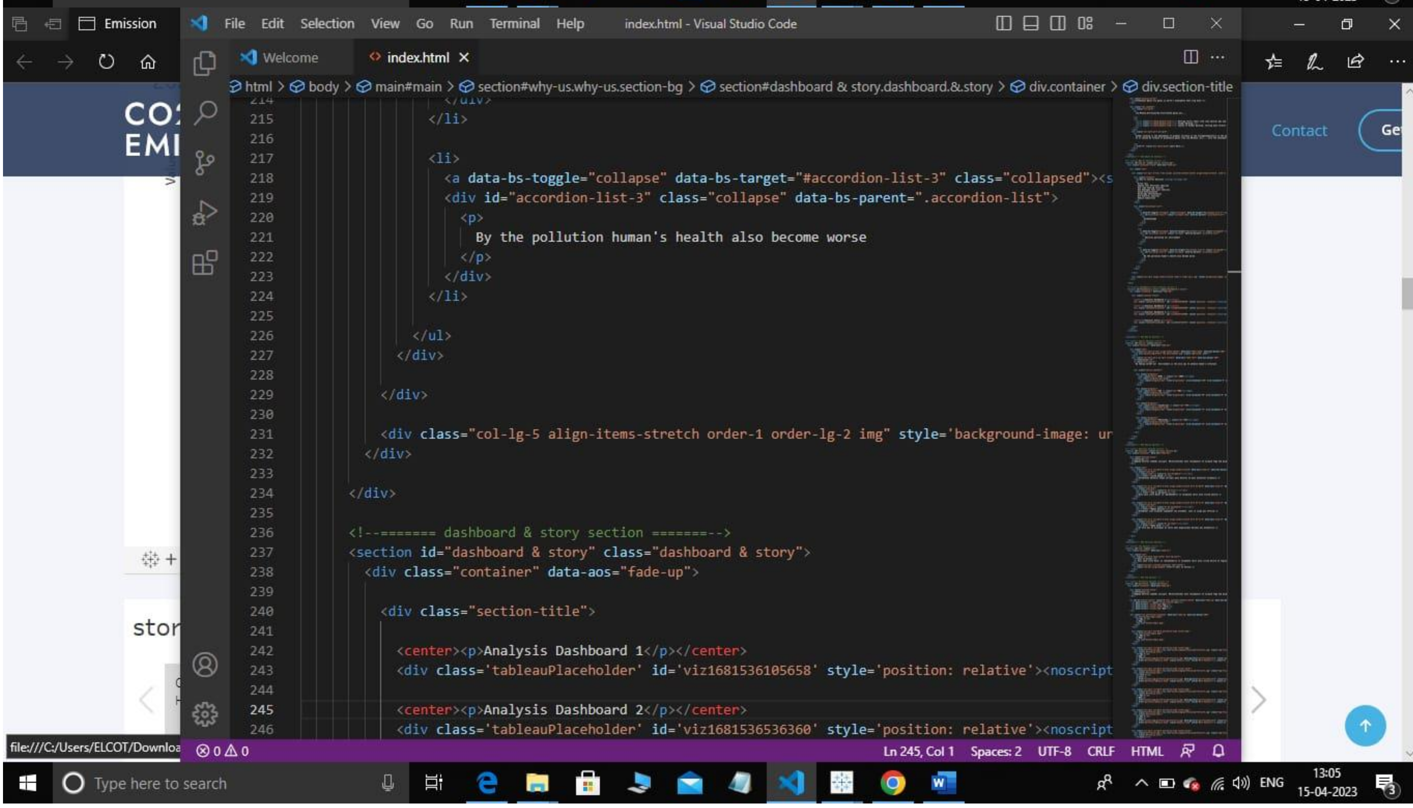
15-04-2023

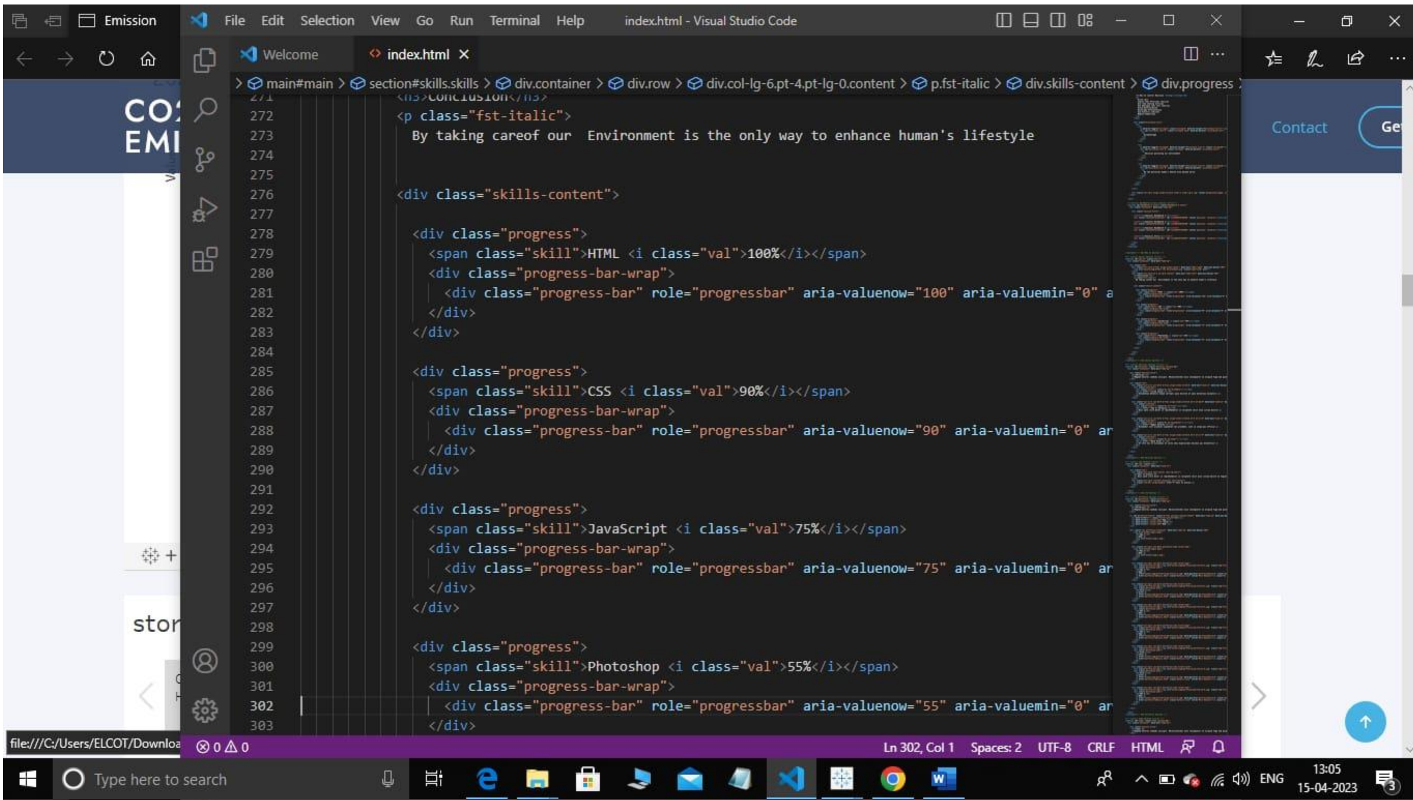

Photos - Screenshot (25).png
See all photos
File Edit Selection View Go Run Terminal Help
● index.html - Visual Studio Code
Welcome
index.html
> Users > ELCOT > Downloads > Arsha > Arsha > index.html > html > body > main#main > section#about.about > div.container > div.row.content
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-3.png" class="img-fluid" alt="">
</div>
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-4.png" class="img-fluid" alt="">
</div>
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-5.png" class="img-fluid" alt="">
</div>
<div class="col-lg-2 col-md-4 col-6 d-flex align-items-center justify-content-center">
<img src="assets/img/clients/client-6.png" class="img-fluid" alt="">
</div>
</div>
</div>
</section><!-- End Cliens Section -->
<!-- ======= About Us Section ======= -->
<section id="about" class="about">
<div class="container" data-aos="fade-up">
<div class="section-title">
<h2>Greenhouse gases are gases in earth's atmosphere that trap heat</h2>
</div>
<div class="row content">
<div class="col-lg-6">
<p>
Ln 150, Col 33 Spaces: 2 UTF-8 CRLF HTML
Share
Type here to search
ENG
13:13
15-04-2023

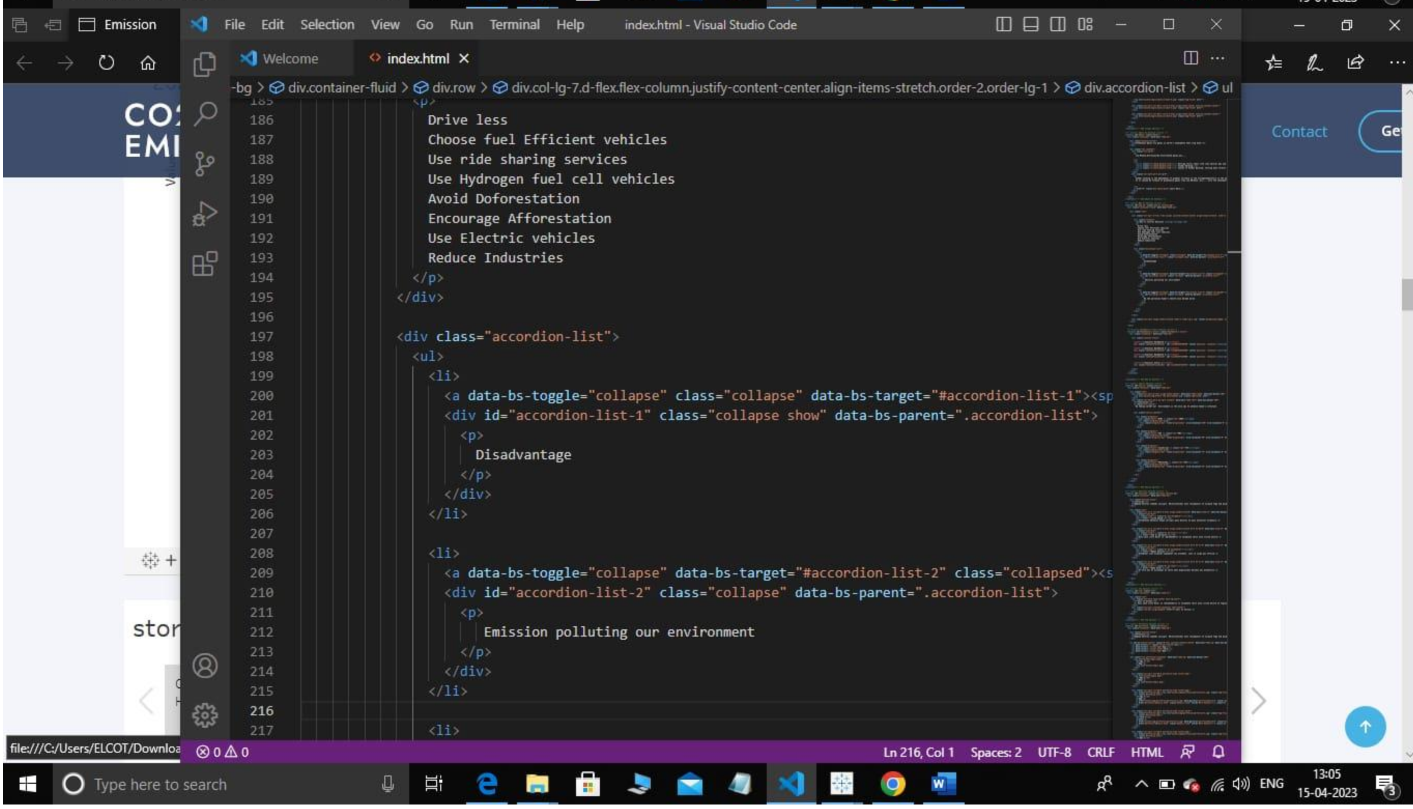

Emission
File Edit Selection View Go Run Terminal Help
index.html - Visual Studio Code
Welcome
index.html
html > body > main#main > section#why-us.why-us.section-bg > section#dashboard & story.dashboard.&story > div.container > div.section-title

<a data-bs-toggle="collapse" data-bs-target="#accordion-list-3" class="collapsed"><s
<div id="accordion-list-3" class="collapse" data-bs-parent=".accordion-list">
<p>
By the pollution human's health also become worse
</p>
</div>

</div>
</div>
<div class="col-lg-5 align-items-stretch order-1 order-lg-2 img" style='background-image: ur
</div>
</div>
<!--======= dashboard & story section =======-->
<section id="dashboard & story" class="dashboard & story">
<div class="container" data-aos="fade-up">
<div class="section-title">
<center><p>Analysis Dashboard 1</p></center>
<div class='tableauPlaceholder' id='viz1681536105658' style='position: relative'><noscript
<center><p>Analysis Dashboard 2</p></center>
<div class='tableauPlaceholder' id='viz1681536536360' style='position: relative'><noscript
Contact
file:///C:/Users/ELCOT/Downloa
Ln 245, Col 1 Spaces: 2 UTF-8 CRLF HTML
Type here to search
ENG
13:05
15-04-2023




index.html - Visual Studio Code
main#main > section#skills.skills > div.container > div.row > div.col-lg-6.pt-4.pt-lg-0.content > p.fst-italic > div.skills-content > div.progress
<p class="fst-italic">
By taking careof our Environment is the only way to enhance human's lifestyle
<div class="skills-content">
<div class="progress">
HTML <i class="val">100%</i>
<div class="progress-bar-wrap">
<div class="progress-bar" role="progressbar" aria-valuenow="100" aria-valuemin="0" a
</div>
</div>
<div class="progress">
CSS <i class="val">90%</i>
<div class="progress-bar-wrap">
<div class="progress-bar" role="progressbar" aria-valuenow="90" aria-valuemin="0" ar
</div>
</div>
<div class="progress">
JavaScript <i class="val">75%</i>
<div class="progress-bar-wrap">
<div class="progress-bar" role="progressbar" aria-valuenow="75" aria-valuemin="0" ar
</div>
</div>
<div class="progress">
Photoshop <i class="val">55%</i>
<div class="progress-bar-wrap">
<div class="progress-bar" role="progressbar" aria-valuenow="55" aria-valuemin="0" ar
</div>
Ln 302, Col 1 Spaces: 2 UTF-8 CRLF HTML
13:05 15-04-2023


index.html - Visual Studio Code
-bg > div.container-fluid > div.row > div.col-lg-7.d-flex.flex-column.justify-content-center.align-items-stretch.order-2.order-lg-1 > div.accordion-list > ul
Drive less
Choose fuel Efficient vehicles
Use ride sharing services
Use Hydrogen fuel cell vehicles
Avoid Doforestation
Encourage Afforestation
Use Electric vehicles
Reduce Industries
</p>
</div>
<div class="accordion-list">

<a data-bs-toggle="collapse" class="collapse" data-bs-target="#accordion-list-1"><sp
<div id="accordion-list-1" class="collapse show" data-bs-parent=".accordion-list">
<p>
Disadvantage
</p>
</div>

<a data-bs-toggle="collapse" data-bs-target="#accordion-list-2" class="collapsed"><s
<div id="accordion-list-2" class="collapse" data-bs-parent=".accordion-list">
<p>
Emission polluting our environment
</p>
</div>

Ln 216, Col 1 Spaces: 2 UTF-8 CRLF HTML
13:05 15-04-2023

```html
          </div>
        </div>

        <div class="col-xl-3 col-md-6 d-flex align-items-stretch mt-4 mt-xl-0" data-aos="zoom-in" da
          <div class="icon-box">
            <div class="icon"><i class="bx bx-layer"></i></div>
            <h4><a href="">Nemo Enim</a></h4>
            <p>At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis</p>
          </div>
        </div>

      </div>

    </div>
  </section><!-- End Services Section -->

  <!-- ======= Cta Section ======= -->
  <section id="cta" class="cta">
    <div class="container" data-aos="zoom-in">

      <div class="row">
        <div class="col-lg-9 text-center text-lg-start">
          <h3>Call To Action</h3>
          <p> Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat
        </div>
        <div class="col-lg-3 cta-btn-container text-center">
          <a class="cta-btn align-middle" href="#">Call To Action</a>
        </div>
      </div>

    </div>
  </section><!-- End Cta Section -->
```

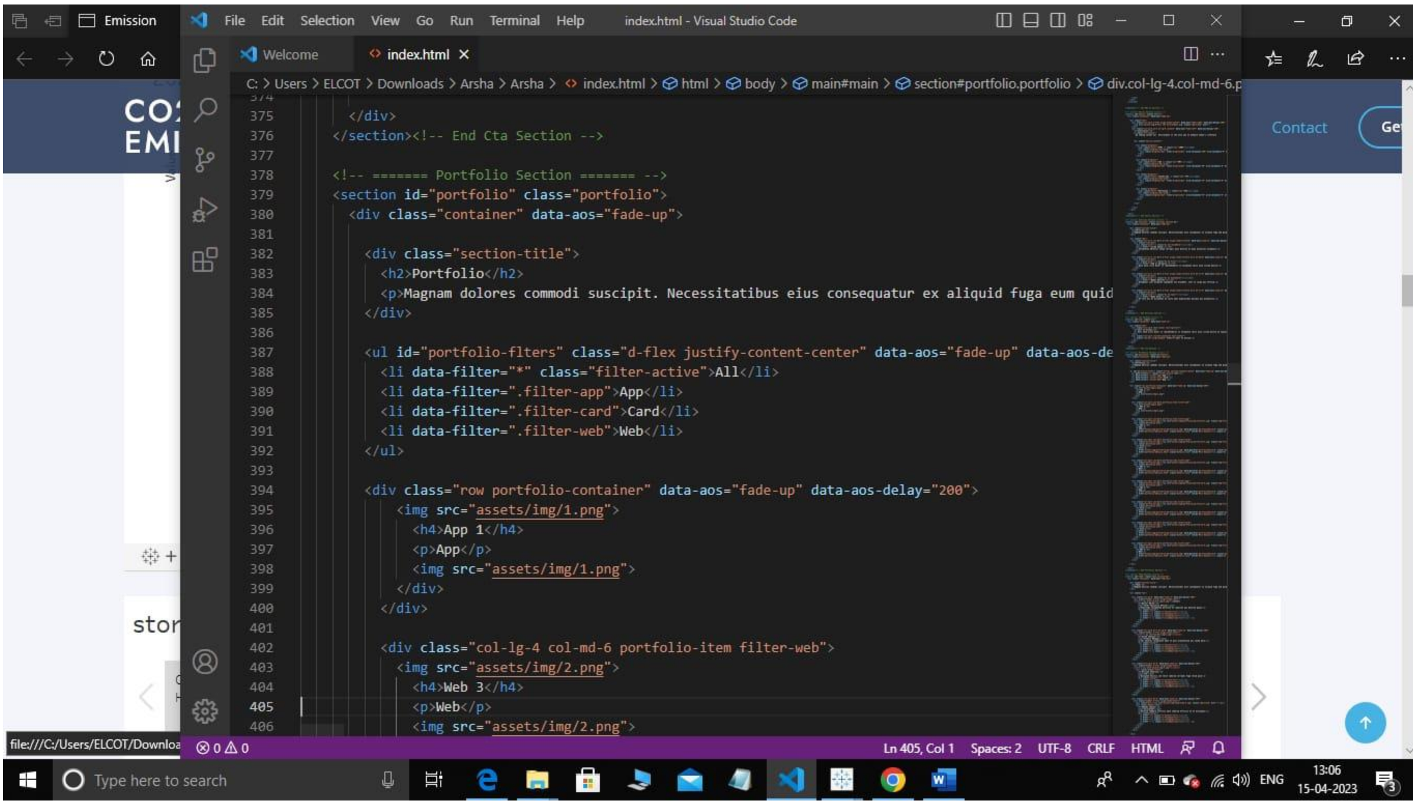
```html
  <!-- ======= Services Section ======= -->
  <section id="services" class="services section-bg">
    <div class="container" data-aos="fade-up">

      <div class="section-title">
        <h2>Services</h2>
        <p>Magnam dolores commodi suscipit. Necessitatibus eius consequatur ex aliquid fuga eum quid
      </div>

      <div class="row">
        <div class="col-xl-3 col-md-6 d-flex align-items-stretch" data-aos="zoom-in" data-aos-delay=
          <div class="icon-box">
            <div class="icon"><i class="bx bxl-dribbble"></i></div>
            <h4><a href="">Lorem Ipsum</a></h4>
            <p>Voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi</p>
          </div>
        </div>

        <div class="col-xl-3 col-md-6 d-flex align-items-stretch mt-4 mt-md-0" data-aos="zoom-in" da
          <div class="icon-box">
            <div class="icon"><i class="bx bx-file"></i></div>
            <h4><a href="">Sed ut perspici</a></h4>
            <p>Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore</p>
          </div>
        </div>

        <div class="col-xl-3 col-md-6 d-flex align-items-stretch mt-4 mt-xl-0" data-aos="zoom-in" da
          <div class="icon-box">
            <div class="icon"><i class="bx bx-tachometer"></i></div>
            <h4><a href="">Magni Dolores</a></h4>
            <p>Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia</p>
          </div>
```


Emission
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index.html - Visual Studio Code
Welcome
index.html
C: > Users > ELCOT > Downloads > Arsha > Arsha > index.html > html > body > main#main > section#portfolio.portfolio > div.col-lg-4.col-md-6.p
</div>
</section><!-- End Cta Section -->
<!-- ======= Portfolio Section ======= -->
<section id="portfolio" class="portfolio">
<div class="container" data-aos="fade-up">
<div class="section-title">
<h2>Portfolio</h2>
<p>Magnam dolores commodi suscipit. Necessitatibus eius consequatur ex aliquid fuga eum quid
</div>
<ul id="portfolio-flters" class="d-flex justify-content-center" data-aos="fade-up" data-aos-de
<li data-filter="*" class="filter-active">All
<li data-filter=".filter-app">App
<li data-filter=".filter-card">Card
<li data-filter=".filter-web">Web

<div class="row portfolio-container" data-aos="fade-up" data-aos-delay="200">
<img src="assets/img/1.png">
<h4>App 1</h4>
<p>App</p>
<img src="assets/img/1.png">
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-web">
<img src="assets/img/2.png">
<h4>Web 3</h4>
<p>Web</p>
<img src="assets/img/2.png">
Contact
stor
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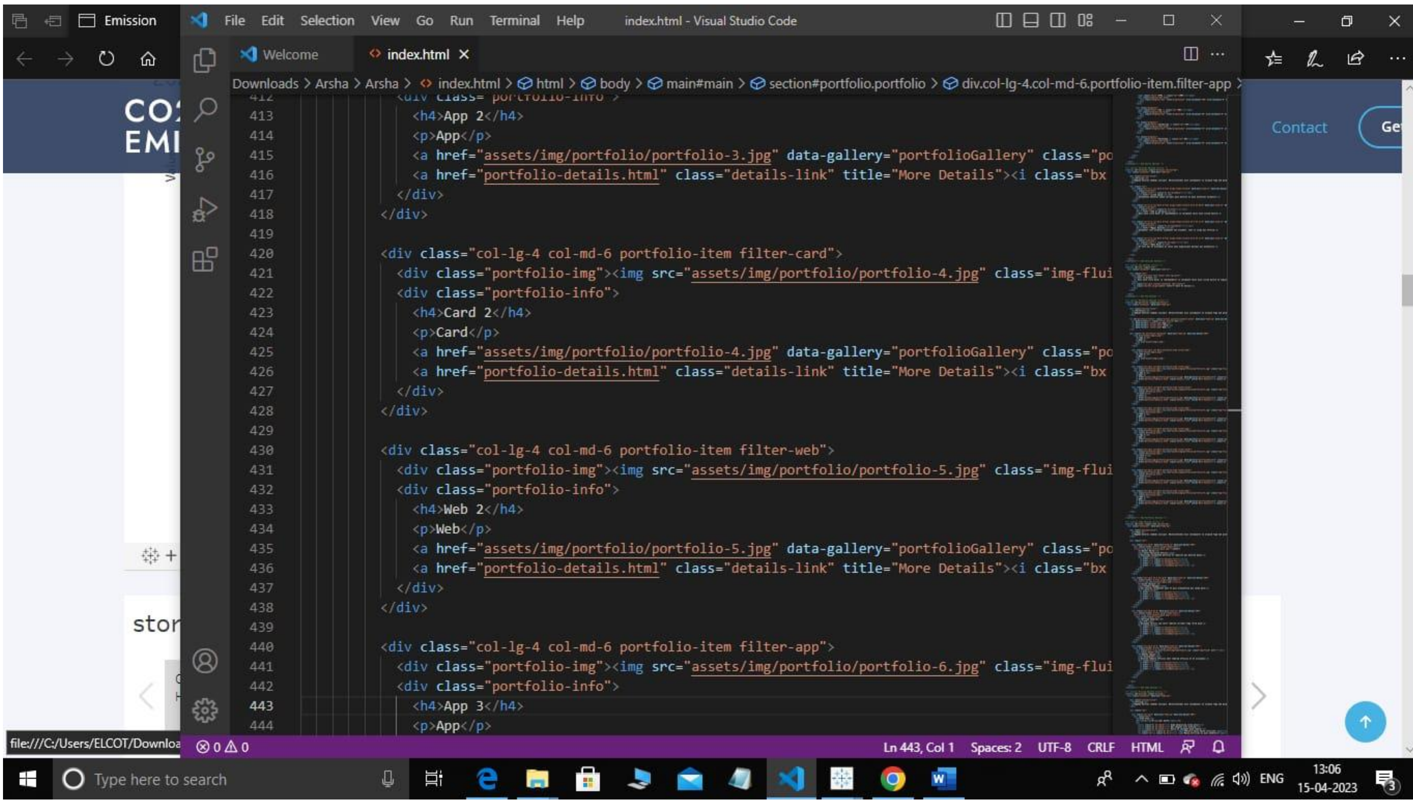
index.html - Visual Studio Code
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Welcome
index.html
Downloads > Arsha > Arsha > index.html > html > body > main#main > section#portfolio.portfolio > div.col-lg-4.col-md-6.portfolio-item.filter-app
<h4>App 2</h4>
<p>App</p>
<a href="assets/img/portfolio/portfolio-3.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-card">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-4.jpg" class="img-flui
<div class="portfolio-info">
<h4>Card 2</h4>
<p>Card</p>
<a href="assets/img/portfolio/portfolio-4.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-web">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-5.jpg" class="img-flui
<div class="portfolio-info">
<h4>Web 2</h4>
<p>Web</p>
<a href="assets/img/portfolio/portfolio-5.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-app">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-6.jpg" class="img-flui
<div class="portfolio-info">
<h4>App 3</h4>
<p>App</p>
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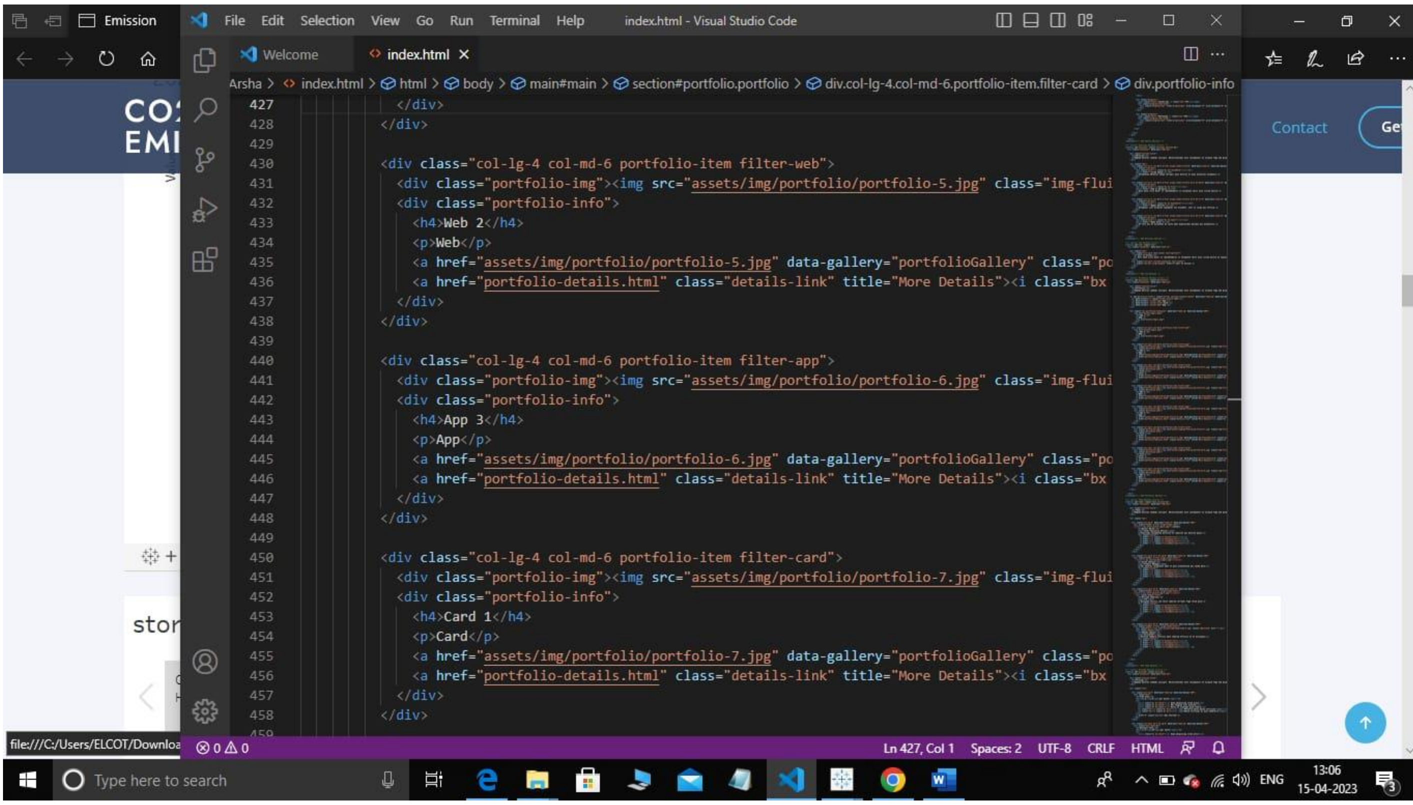

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index.html - Visual Studio Code
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</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-web">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-5.jpg" class="img-flui
<div class="portfolio-info">
<h4>Web 2</h4>
<p>Web</p>
<a href="assets/img/portfolio/portfolio-5.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-app">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-6.jpg" class="img-flui
<div class="portfolio-info">
<h4>App 3</h4>
<p>App</p>
<a href="assets/img/portfolio/portfolio-6.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-card">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-7.jpg" class="img-flui
<div class="portfolio-info">
<h4>Card 1</h4>
<p>Card</p>
<a href="assets/img/portfolio/portfolio-7.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
Contact
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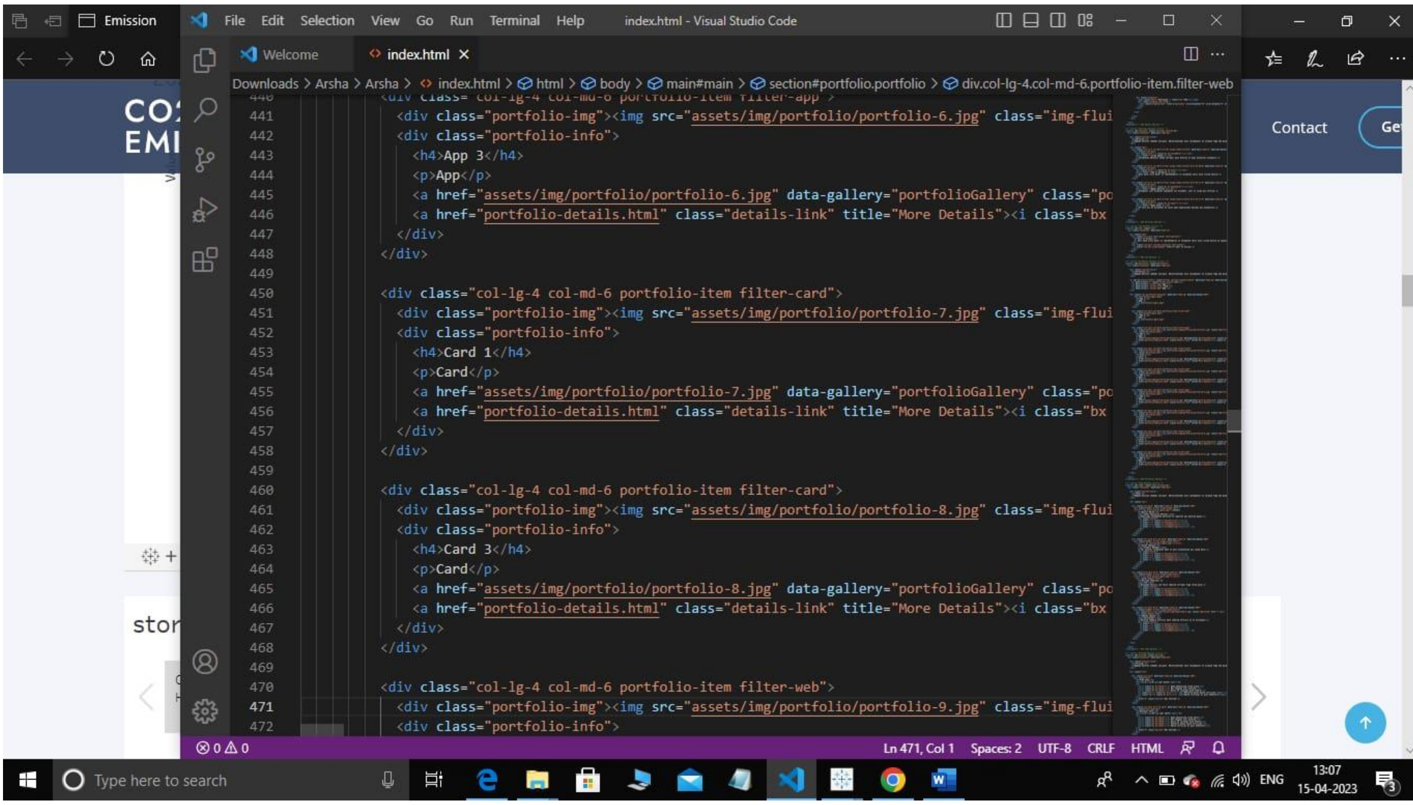
Emission
File Edit Selection View Go Run Terminal Help
index.html - Visual Studio Code
Welcome
index.html
Downloads > Arsha > Arsha > index.html > html > body > main#main > section#portfolio.portfolio > div.col-lg-4.col-md-6.portfolio-item.filter-web
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-6.jpg" class="img-flui
<div class="portfolio-info">
<h4>App 3</h4>
<p>App</p>
<a href="assets/img/portfolio/portfolio-6.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-card">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-7.jpg" class="img-flui
<div class="portfolio-info">
<h4>Card 1</h4>
<p>Card</p>
<a href="assets/img/portfolio/portfolio-7.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-card">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-8.jpg" class="img-flui
<div class="portfolio-info">
<h4>Card 3</h4>
<p>Card</p>
<a href="assets/img/portfolio/portfolio-8.jpg" data-gallery="portfolioGallery" class="po
<a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
</div>
</div>
<div class="col-lg-4 col-md-6 portfolio-item filter-web">
<div class="portfolio-img"><img src="assets/img/portfolio/portfolio-9.jpg" class="img-flui
<div class="portfolio-info">
Contact
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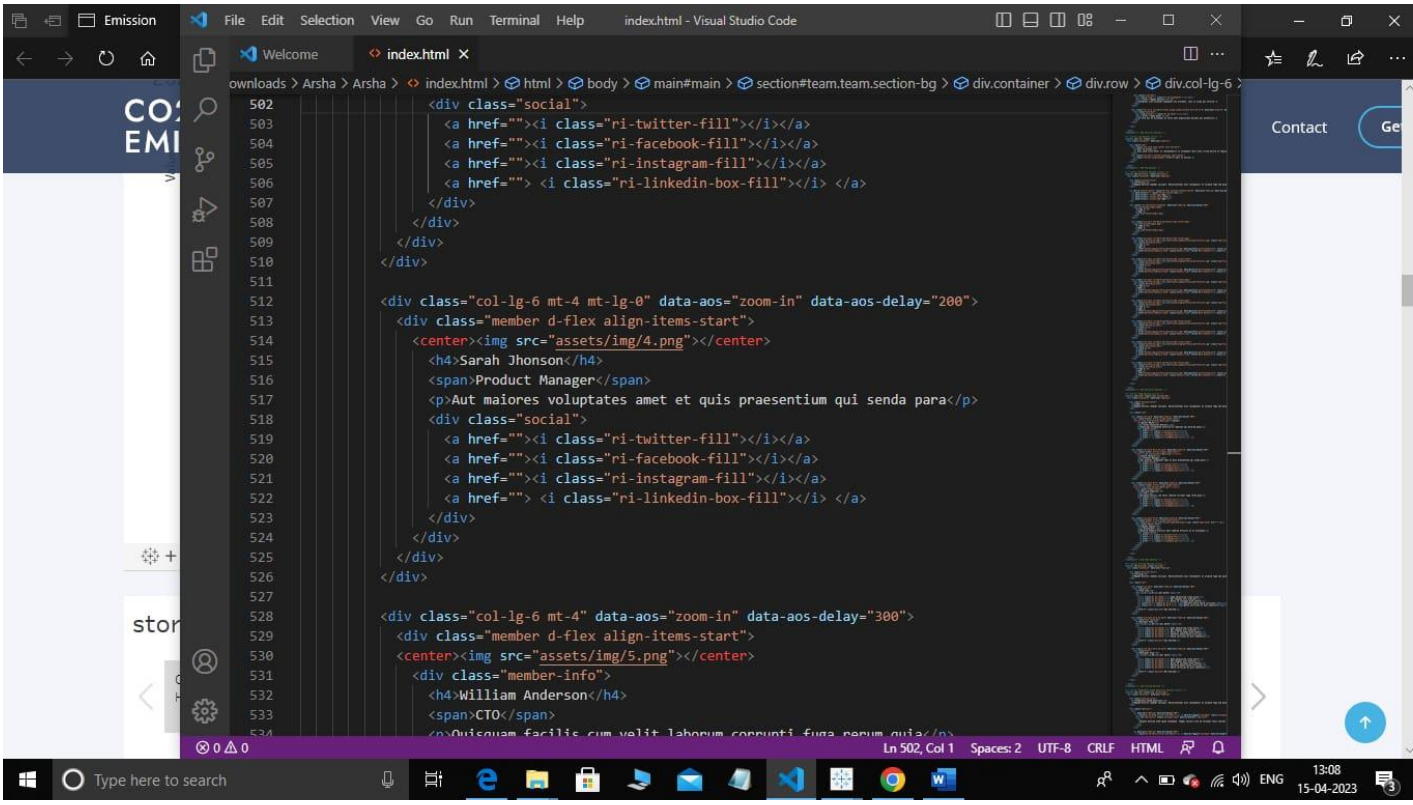

```html
<div class="social">
  <a href=""><i class="ri-twitter-fill"></i></a>
  <a href=""><i class="ri-facebook-fill"></i></a>
  <a href=""><i class="ri-instagram-fill"></i></a>
  <a href=""> <i class="ri-linkedin-box-fill"></i> </a>
</div>
      </div>
    </div>
  </div>

  <div class="col-lg-6 mt-4 mt-lg-0" data-aos="zoom-in" data-aos-delay="200">
    <div class="member d-flex align-items-start">
      <center><img src="assets/img/4.png"></center>
        <h4>Sarah Jhonson</h4>
        <span>Product Manager</span>
        <p>Aut maiores voluptates amet et quis praesentium qui senda para</p>
        <div class="social">
          <a href=""><i class="ri-twitter-fill"></i></a>
          <a href=""><i class="ri-facebook-fill"></i></a>
          <a href=""><i class="ri-instagram-fill"></i></a>
          <a href=""> <i class="ri-linkedin-box-fill"></i> </a>
        </div>
      </div>
    </div>
  </div>

  <div class="col-lg-6 mt-4" data-aos="zoom-in" data-aos-delay="300">
    <div class="member d-flex align-items-start">
    <center><img src="assets/img/5.png"></center>
      <div class="member-info">
        <h4>William Anderson</h4>
        <span>CTO</span>
```