

BES-103 CRITICAL THINKING

Department Of Computer Science

Submitted to: Miss Komal Fatima

Submitted by: Esha Ashfaq

Enrollment: 02-235232-002

Program: BS (IT)

Semester: Spring-2025



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ASSIGNMENT 01

Marks: 05

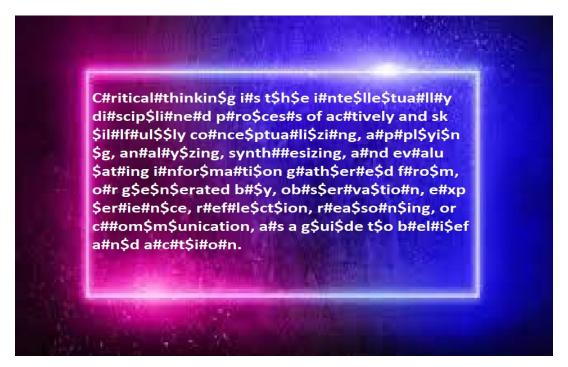
Question No.1: [CLO1, PLO1, C2]

As a critical thinker you need to **infer** an Image containing jumbled Text. You need to show an approach to decrypt the Text. Your solution must cover the following:

- Extraction of Text from Image.
- The Final Text must be clearly written/readable.

The steps involved in your approach must be detailed with proper OUTPUT and screenshot of actual code with your name and enrollment number printed on output screen as well.

P.S. There can be more than one solution. Use programming language of your own choice.





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Code:

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Image Text Extractor</title>
   <script src="https://cdnjs.cloudflare.com/ajax/libs/tesseract.js/4.0.2/tesseract.min.js"></script>
           font-family: Arial, sans-serif;
           background-color: ■rgb(215, 187, 149);
           background-size: cover;
           text-align: center;
           color: white;
        .container {
           background: □rgba(0, 0, 0, 0.8);
           padding: 20px;
           border-radius: 10px;
           width: 60%;
           margin: auto;
           margin-top: 50px;
           box-shadow: 0px 0px 10px ■rgba(255, 255, 255, 0.5);
          margin: 10px;
```

```
background: ■#f39c12;
      color: ☐white;
      border: none;
      cursor: pointer;
      border-radius: 5px;
   button:hover {
      background: ■#e67e22;
   .output {
      margin-top: 20px;
       text-align: left;
      background: ■rgba(255, 255, 255, 0.9);
      color: □black;
      padding: 15px;
      border-radius: 5px;
<div class="container">
   <h1>Image Text Extractor & Formatter</h1>
   <input type="file" id="imageInput" accept="image/*">
   <button onclick="extractText()">Extract & Format</button>
   <div class="output">
      <h2>Original Extracted Text:</h2>
       <h2>Formatted Text:</h2>
```



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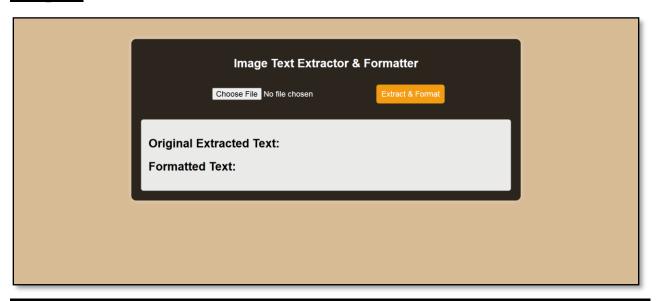
```
"intelleutaiy": "intellectual",
    "disciplineid": "disciplined",
    "prosces": "process",
"sillfulsy": "skillfully",
    "applysinsg": "applying",
"analyzsing": "analyzing",
    "syntheszing": "synthesizing",
    "evalu": "evaluate",
    "sating": "stating",
"infor smatison": "information",
    "gathseresd": "gathered",
    "frosm": "from",
    "gsesnserated": "generated",
    "bsy": "by",
    "exp sertieinsce": "experience",
"rifeitlesctsion": "reflection",
    "rifeasonisng": "reasoning",
    "chomsmsunication": "communication",
    "gsuisde": "guide",
    "tso": "to",
"belisef": "belief",
return dictionary[word] || word;
```

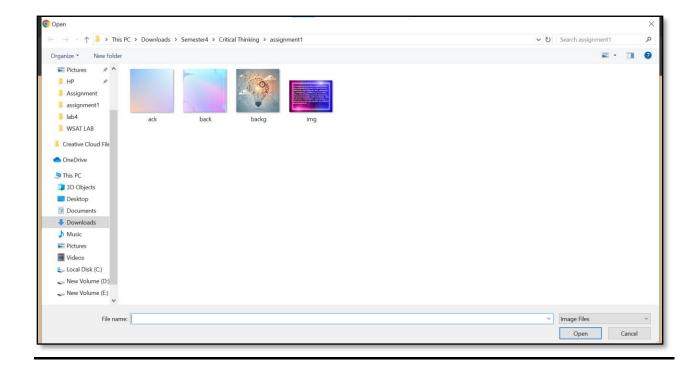


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Output:







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Original Extracted Text:

ChriticalthinkinSg is tShSe intelletualy discipSilneid proScess of actively and sk SillfulSly coinceSptualtiszting applSyiSn Sg analySzing synthesizing and evalu Sating inforSmatiSon gathSereSd froSm ort gSeShSerated bSy obsServaStioin exp SertleinSce rifefitleSctSion rifeasonSing or cHomSmSunication as a gSuiSde tSo beliSef and aticitSiton

Formatted Text:

Name: Esha Ashfaq Roll No: 02-235232-002 Subject: Critical Thinking Class: BS IT 4 A

Chriticalthinkinsg is tshse intelletualy discipslineid proscess of actively and sk sillfulsly coincesptualtiszing applsyisn sg analyszing synthesizing and evaluate stating inforsmatison gathered from or generated by observastioin exp sertieinsce rifefitlesctsion rifeasonsing or communication as a guide to belief and action