

## Important Note: Please submit your assignment via GitHub

Step 1: Create a Repository on GitHub

Step 2: Upload Your Code from Your Computer

Step 3: Copy the Repository Link

Step 4: Send the Link via Email : [learn.inceptionbd@gmail.com](mailto:learn.inceptionbd@gmail.com)

### Gmail Format:-

Compose a new email with the following details:

To: [learn.inceptionbd@gmail.com](mailto:learn.inceptionbd@gmail.com)

Subject: FSDS with Gen AI Assignment-1 Submission

Body:

Hello, Please find my assignment submission at the following GitHub repository link.

Name: Md. Ridoy Hossain

Student ID: 2AE89DFB

Repository Link: <https://github.com/inceptionbd/Computer-Vision>

Best Regards

Md. Ridoy Hossain

The screenshot shows the Inception BD LMS dashboard. On the left, there's a sidebar with navigation links: Dashboard, Courses, Settings, and Home. The main content area displays a course titled "Job-Ready Full Stack Data Science with Generative AI Bootcamp 1.0 in Bangla". A large black rectangular redaction box covers the course content area. At the top right of the main content area, there's a user profile for "Md. Ridoy Hossain Instructor" with a "Logout" button. A red arrow points to the "Logout" button.

The screenshot shows the "instructor Profile Details" page for Md. Ridoy Hossain. The top navigation bar includes "Profile" and "Logout" buttons. The main content area contains several profile details in cards: Full Name (Md. Ridoy Hossain), Email (learn.inception@gmail.com), Mobile Number (0196517\*\*\*\*), Role (instructor), Job Title (Robotics Engineer and Mentor), and Education (with a note about being the Founder & CEO of Inception BD). A red arrow points to the "Status" and "Verified" status indicators at the bottom of the profile card. The sidebar on the left is identical to the one in the previous screenshot.

## Assignment 1: Temperature Check

### Problem:

Write a program that takes the current temperature as input and prints:

- "It's too cold!" if below 10°C
  - "It's cool outside" if between 10°C and 25°C
  - "It's hot outside!" if above 25°C
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## Assignment 2: ATM Withdrawal System

### Problem:

Ask the user for their account balance and the amount they want to withdraw.

- If the withdrawal amount is greater than the balance → print "**Insufficient Balance**"
  - If the withdrawal amount is less than or equal to balance → print "**Transaction Successful**" and show the remaining balance.
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## Assignment 3: Student Grade Calculator

### Problem:

Input marks (0–100) and print grade based on:

- 90–100 → A+
  - 80–89 → A
  - 70–79 → B
  - 60–69 → C
  - Below 60 → Fail
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## Assignment 4: Bus Ticket Discount

### Problem:

Ask the user for age and print ticket price:

- Below 5 → Free
  - 5–18 → 50% Discount
  - 60 or above → 30% Discount
  - Others → Full Price
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## Assignment 5: Restaurant Bill with Discount

### Problem:

Take total bill amount from the user:

- If the bill is above 1000 → apply 10% discount
  - Otherwise → no discount  
Then print the final bill amount.
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## Assignment 6: Login Authentication

### Problem:

Take a username and password input.

- If username == "admin" and password == "12345" → print "**Login Successful**"
  - Else → print "**Invalid Credentials**"
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## Assignment 7: Traffic Light System

### Problem:

Ask the user to input a color (`red`, `yellow`, or `green`).

Print:

- "`Stop`" for red
  - "`Ready to go`" for yellow
  - "`Go`" for green
  - "`Invalid color`" otherwise
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## Assignment 8: Leap Year Checker

### Problem:

Take a year as input and check:

- If it is divisible by 400 → Leap Year
  - Else if divisible by 4 but not by 100 → Leap Year
  - Otherwise → Not a Leap Year
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## Assignment 9: Job Eligibility Checker

### Problem:

Input age and qualification.

- If age  $\geq 18$  and qualification is "graduate" → print "`Eligible for Job`"
  - Else → "`Not Eligible`"
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## Assignment 10: Electricity Bill Calculator

### Problem:

Input number of units consumed and calculate bill:

- Up to 100 units → 5 BDT per unit
  - 101–200 units → 7 BDT per unit
  - Above 200 units → 10 BDT per unit
- Print total payable amount.
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