1) In your own words, explain why keeping track of data types was important in this program?

➢ In this program handling of a datatype is important because here we are making a calculator for users who will check how much tax they have to pay based on their annual income.

Reasons:-

- What if they enter a negative salary value by mistake which is not possible in the real world

- What if they enter some characteristic word in input but here our calculator will calculate only numerical value

2) Which part of the above program did you find most challenging?

➢ For me the most challenging part was to handle the user's salary data while we were taking in input there was the chance of making a mistake and based on their mistake it would through an error like a value error if they entered a string and due to some issue they may enter the negative value or so we have to handle all the scenarios.

3) What was your process for troubleshooting or solving problems within your code?

- First I will identify the specific problem or error by examining any error message or something unexpected behavior in the program.
- After examining the error I would review the relevant section of the code to understand the logic and identify any potential sources of the problem
- If necessary, I would refer to documentation, and resources, or seek assistance from colleagues or online communities to understand concepts or find solutions to the problem.

4) What could be done to make this exam better for future students?

- Provide more detailed instructions or prompts for each question to guide students in understanding the requirements and expectations.
- Include a variety of question types (e.g., multiple-choice, short answer, coding exercises) to assess different aspects of students' knowledge and skills.

- Offer feedback or explanations for incorrect answers to help students learn from their mistakes and improve their understanding.
- Encourage students to demonstrate their problem-solving skills and critical thinking abilities by presenting real-world scenarios or challenging problems.
- Allow opportunities for students to showcase their creativity and innovation by incorporating open-ended questions or projects into the exam format.