Presidential Initiative for Artificial Intelligence and Computing (PIAIC)

PIAIC Batch 4-35 IoT

https://www.piaic.org

Internet of Things (IoT) Specialist Program

Quarter 2: Rust Programming

Assignment # 2

Questions:

1. Define Traits in your own words?

2. Illustrate with an example how using Traits can help you organize your code and reduce duplication in your program

3. Write a rust program:
   a. Define a struct IOT_student with attributes (name, age, education).
   b. Define another struct IOT_instructor (name, age).
   c. Define a trait Questions with method ask_Questions with a default implementation which prints ("**Zoom session will be LIVE, Zoom recording will not be available. Quarter 2 studio recorded videos are available on Portal.**").
   d. Impl trait Questions for IOT_instructor which overrides the default implementation of method ask_question, takes student name as a parameter and prints on screen ("{} **In case of any issue email to education@piaic.org**").
   e. Create instances of both the structs and call Method ask_question.

4. Go through the solution of the largest function given at the end of 10.2 in the book and rewrite the solution but this time returning the smallest item instead largest.

For reference, review book and videos available on portal "Rust Programming Language Part 2".

Important: Use meaningful names while declaring variables and functions. Avoid 'a', 'b', 'x', 'y', etc..

Please click here to submit your assignment
(or paste this link https://forms.gle/pHk9cZXD9nbofLtC6 in your browser)