

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 # 1

Questions:

1. Define Generic types in your own words?
2. List three scenarios where using generic types will be helpful compared to using concrete types?
Example: an estimation function for two different types of sensors where one sensor gives output in integer and the other gives in floating point.
3. Rewrite the given Struct Car with 3 parameters of generic types T,U,Y

```
struct Car {  
    make: String,  
    length: u8,  
    width: f32,  
}
```

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/WZV4HASmkKWc8k7QA> in your browser)