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Internet of Things (IoT) Specialist Program

Quarter I: Rust Programming

Assignment # 8

Q # 1. Write a Rust program,

(a) Make an enum **Direction**.
   With variants forward, backward, left, right.

(b) Make a user defined function with name **"check_direction"**.
   That take a variable of Data Type **"Direction"** as parameter.

(c) Inside the body of function **"check_direction"**.
   Handle all cases with **"match"** for example.
   If Direction::forward
   Then print "Vehicle is moved forward".

(d) Call **check_direction** with enum variant as an argument from **"main"** function.

Q# 2. Write a Rust Program,

   (a) Make a user defined function with name **"add_one"**.
      1) **add_one** function is required to plus one to its parameter.
      2) take a variable of Data Type **Option<i32>** as parameter.
      3) return a value of Data Type **Option<i32>**.

   (b) Handle both cases for **Option<i32>** enum with **match** operator.
   (c) From main function pass **some** variant and a **none** variant to the function **"add_one"**.
   (d) Print the return value from **"add_one"** function in *main function*.

For reference, review book and videos available on portal "Rust Programming Language Lesson 6".

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

Please click [here](https://forms.gle/PDExfmxs43xs8UJg9) to submit your assignment

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