

Solution Review: Check If the Person Has a Driving License

This lesson gives a detailed solution review to the challenge in the previous lesson.

We'll cover the following



- Solution:
- Explanation

Solution:

```
#![allow(dead_code)]
//declare a structure
struct Car {
    owner_age:i32,
}
struct Motorbike {
    owner_age:i32,
}
//declare a trait
trait Drive {
    fn can_drive(&self)->i32;
}
//implement the trait
impl Drive for Car{
    fn can_drive(&self)->i32{
        if self.owner_age>18 {
            1
        }
        else {
            0
        }
    }
}
//implement the trait
impl Drive for Motorbike{
    fn can_drive(&self)->i32{
        if self.owner_age>14{
            1
        }
        else {
            0
        }
    }
}
fn main(){
    let mut c = Car {
```



```

    owner_age:16
};
println!("Can age = 16 drive a car ? - {}", c.can_drive());

c.owner_age = 23;
println!("Can age = 23 drive a car ? - {}", c.can_drive());
let mut d = Motorbike {
    owner_age:10
};
println!("Can age = 10 drive a motorbike? - {}", d.can_drive());
d.owner_age = 17;
println!("Can age = 17 drive a motorbike? - {}", d.can_drive());
}

```



Explanation

- **struct Car**
 - A **struct Car** is declared from **line 3 to line 5** which has item **owner_age** type **i32**
- **struct Motorbike**
 - A **struct Motorbike** is declared from **line 6 to line 8** which has item **owner_age** type **i32**
- **trait Drive**
 - A **trait Drive** is declared on **line 10**. It has an abstract method **can_drive**.
- **impl Drive for Car**
 - A function **can_drive** is defined from **line 14 to line 23** within the trait which takes a parameter **&self** and returns an integer value.
 - Within the function, an **if..else** construct is used. If the **age** is greater than 18, the function returns 1 else it returns 0.
- **impl Drive for Motorbike**
 - A function **can_drive** is defined from **line 35 to line 34** within the trait which takes a parameter **&self** and returns an integer value.
 - Within the function, an **if..else** statement is used. If the **age** is greater than 14, the function returns 1 else it returns 0.

Now you have learned about traits and generics, let's learn to organize code using "Modules" in the next chapter.