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Day 12 - Assignment

Mixin

In Dart, a mixin is used for reusing code and adding functionality to classes without using traditional inheritance,

Allowing a class to gain behaviors from multiple sources.

Developers can share common features across different class hierarchies, promoting code reuse and preventing the complexity of multiple inheritance

By defining a separate mixin class with methods and properties and applying it to another class using the with keyword.

Below is a simple example of mixin

Ex:-

```
mixin logger {
   void log(String msg) {
      print(msg);
   }
}

class service with logger {
   void dosomething() {
      log("welcome");
   }
}

void main() {
   service obj = service();
   obj.dosomething();
}
```

```
mixin taxable
   void applyTax(double amount)
   print("Tax of ${amount*0.05} is applied");
class BankAccount {
 double balance = 1000;
 void deposit(double amount) {
    balance += amount;
    print("Deposited ${amount}, Balance: \$${balance}");
class BusinessAccount extends BankAccount with taxable {
 void makePurchase(double amount) {
   balance -= amount;
   applyTax(amount);
    print("Purchased ${amount}, Balance: ${balance}");
void main() {
 var acc = BusinessAccount();
 acc.deposit(500);
  acc.makePurchase(200);
```