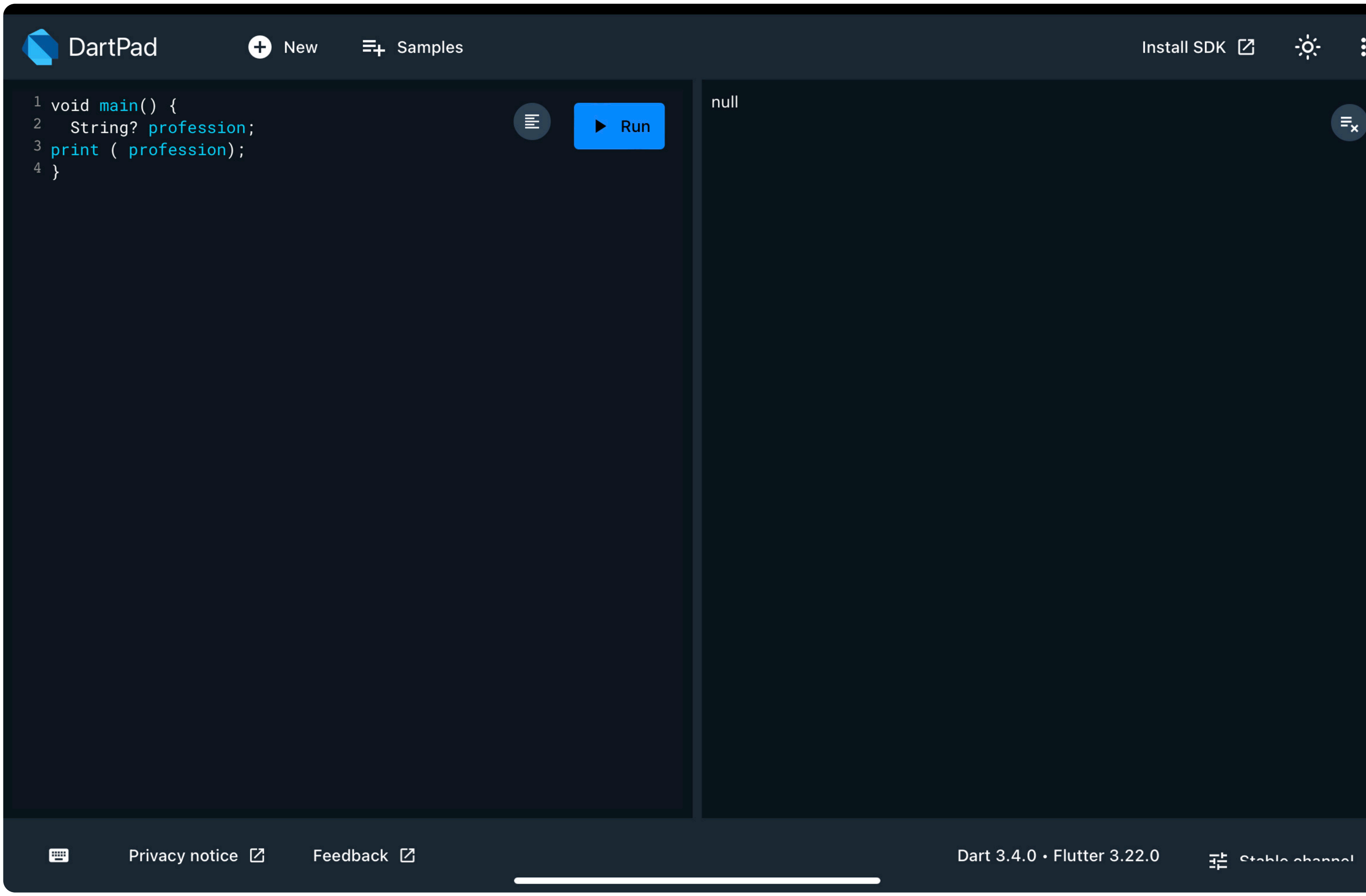
Exercise 1

1. Create a `String?` variable called `profession`, but don't give it a value.
2. Then you'll have `profession` `null`. Get it? Professional?
3. Print the output.
4. Comment on the output you have seen.

```
void main() {
String? profession;
  print ( profession);

 }
```



```
void main() {
  String? profession;
print ( profession);
}
```

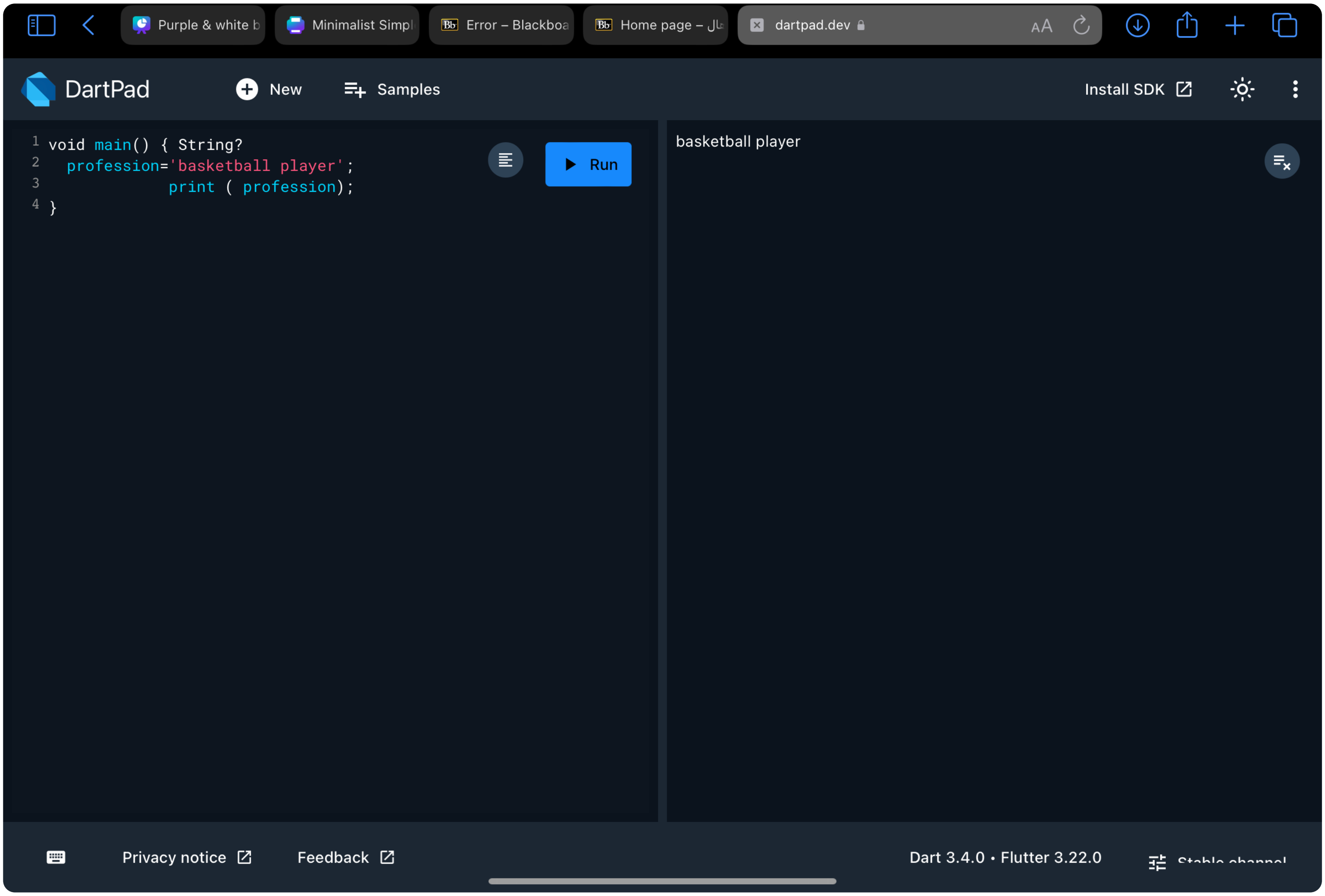
```
null
```

Exercise 2

1. Give `profession` a value of "basketball player".
2. Print the output.
3. Comment on the output you have seen.

```
void main() {
String? profession=
 'basketball player';
 print ( profession);

 }
```



```
void main() { String?
  profession='basketball player';
           print ( profession);
}
```

```
basketball player
```

Exercise 3

1. Write the following line and then hover your cursor over the variable name. What type does Dart infer `iLove` to be? `String` or `String?`?

```
const iLove = 'Dart';
```

Challenge 1: Naming Customs

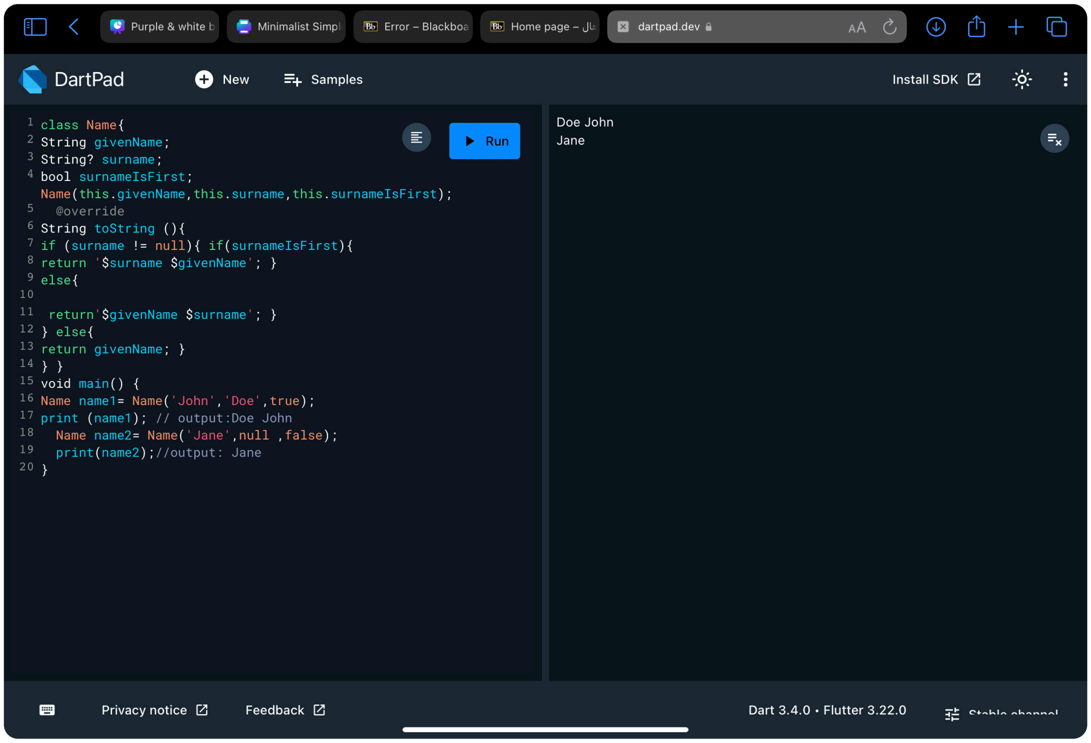
People around the world have different customs for giving names to children. It would be difficult to create a data class to accurately represent them all, but try it like this:

1. Create a class called `Name` with `givenName` and `surname` properties.
2. Some people write the surname last and some write it first.
3. Add a Boolean property called `surnameIsFirst` to keep track of this.
4. Not everyone in the world has a surname.
5. Add a `toString` method that prints the full name.

```
class Name{
 String givenName;
 String? surname;
 bool surnameIsFirst;
 Name(this.givenName,this.surname,this.surnameIsFirst);
 @override
 String toString (){
  if (surname != null){
   if(surnameIsFirst){
    return '$surname $givenName';
   }
   else{
        return'$givenName $surname';
      }
    }
    else{
      return givenName;
    }
  }
}



void main() {
Name name1= Name('John','Doe',true);
  print (name1);// output:Doe John
  Name name2= Name('Jane',null ,false);
  print(name2);//output: Jane
 }
```



```
class Name{
String givenName;
String? surname;
bool surnameIsFirst;
Name(this.givenName,this.surname,this.surnameIsFirst);
  @override
String toString (){
if (surname != null){ if(surnameIsFirst){
return '$surname $givenName'; }
else{

 return'$givenName $surname'; }
} else{
return givenName; }
} }
void main() {
Name name1= Name('John','Doe',true);
print (name1); // output:Doe John
  Name name2= Name('Jane',null ,false);
  print(name2);//output: Jane
}
```

```
Doe John
Jane
```