

# Object-Oriented Programming in C++: Examples and Solutions

## OOP in C++: Examples, Explanations, and Visual Representations

### 1. Diagram for Car Class Example

Diagram: Class Car

```
+-----+
|   Car   |
+-----+
| - price |
+-----+
| +acceptprice() |
| +honk()        |
+-----+
      |
      v
+-----+
|   main()   |
+-----+
| Car ford;  |
| ford.accept(); |
| ford.honk(); |
+-----+
```

### 2. Diagram for Student Class

Diagram: Class Student

```
+-----+
| Student   |
+-----+
| - marks   |
+-----+
| +acceptMarks() |
| +displayMarks() |
+-----+
```

### 3. Diagram for Circle Class

Diagram: Class Circle

```
+-----+
| Circle   |
+-----+
```

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```
+-----+
| - radius |
+-----+
| +acceptRadius() |
| +displayArea() |
+-----+
```

## 4. Diagram for Employee Class

Diagram: Class Employee

```
+-----+
| Employee |
+-----+
| - name |
| - salary |
+-----+
| +acceptDetails() |
| +displayDetails() |
+-----+
```