

Scala Programming

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Write a Scala program that creates an enum class Color with values for different colors. Use the enum class to represent an object's color.

Code:

```
sealed trait Color
case object Red extends Color
case object Green extends Color
case object Blue extends Color
case object Orange extends Color
case object Purple extends Color

object ColorApp {
  def main(args: Array[String]): Unit = {
    val myColor: Color = Red
    //val myColor: Color = Blue
    printColor(myColor)
  }
  def printColor(color: Color): Unit = color match {
    case Red => println("The color is Red.")
    case Green => println("The color is Green.")
    case Blue => println("The color is Blue.")
    case Orange => println("The color is Orange.")
    case _ => println("Unknown color.")
  }
}
```

Output:

Output:

The color is Red.

The output will print the color red as the case class red is defined in the object ColorApp.

Code:

```
sealed trait Color
case object Red extends Color
case object Green extends Color
case object Blue extends Color
case object Orange extends Color
case object Purple extends Color

object ColorApp {
  def main(args: Array[String]): Unit = {
    val myColor: Color = Purple
    //val myColor: Color = Blue
    printColor(myColor)
  }
  def printColor(color: Color): Unit = color match {
    case Red => println("The color is Red.")
    case Green => println("The color is Green.")
    case Blue => println("The color is Blue.")
    case Orange => println("The color is Orange.")
    case _ => println("Unknown color.")
  }
}
```

Output:

Output:

Unknown color.

The output will print unknown color as the case class **Purple** is not defined in the object **ColorApp**.