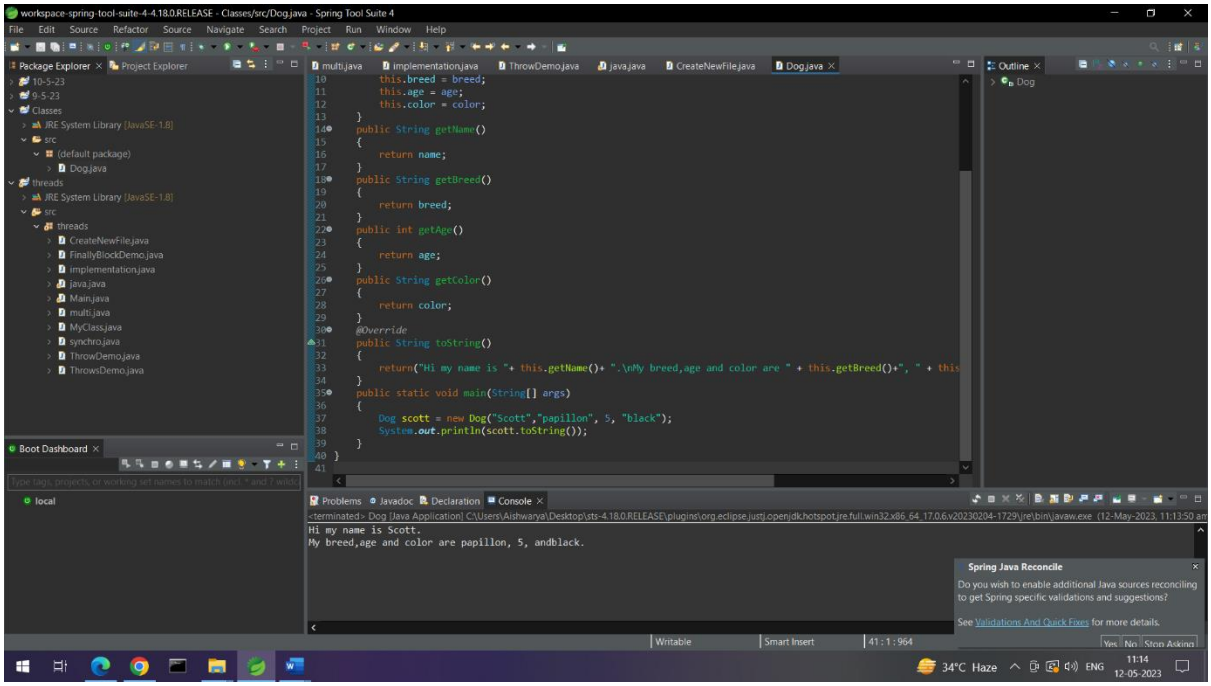
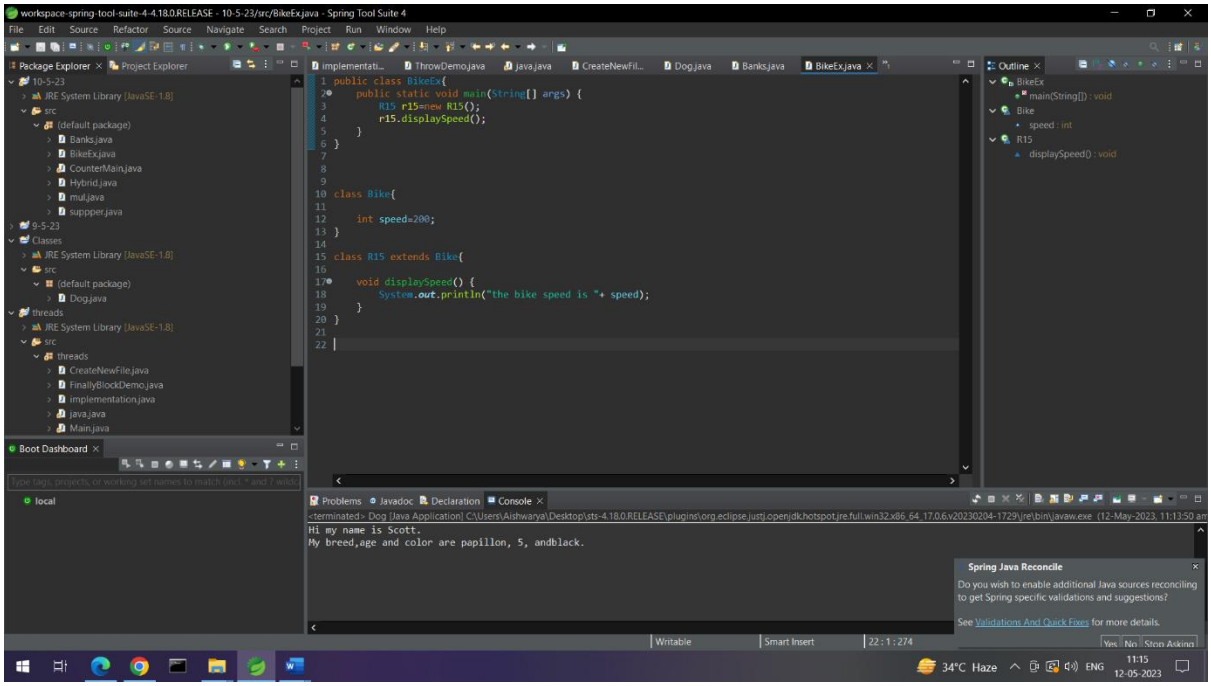
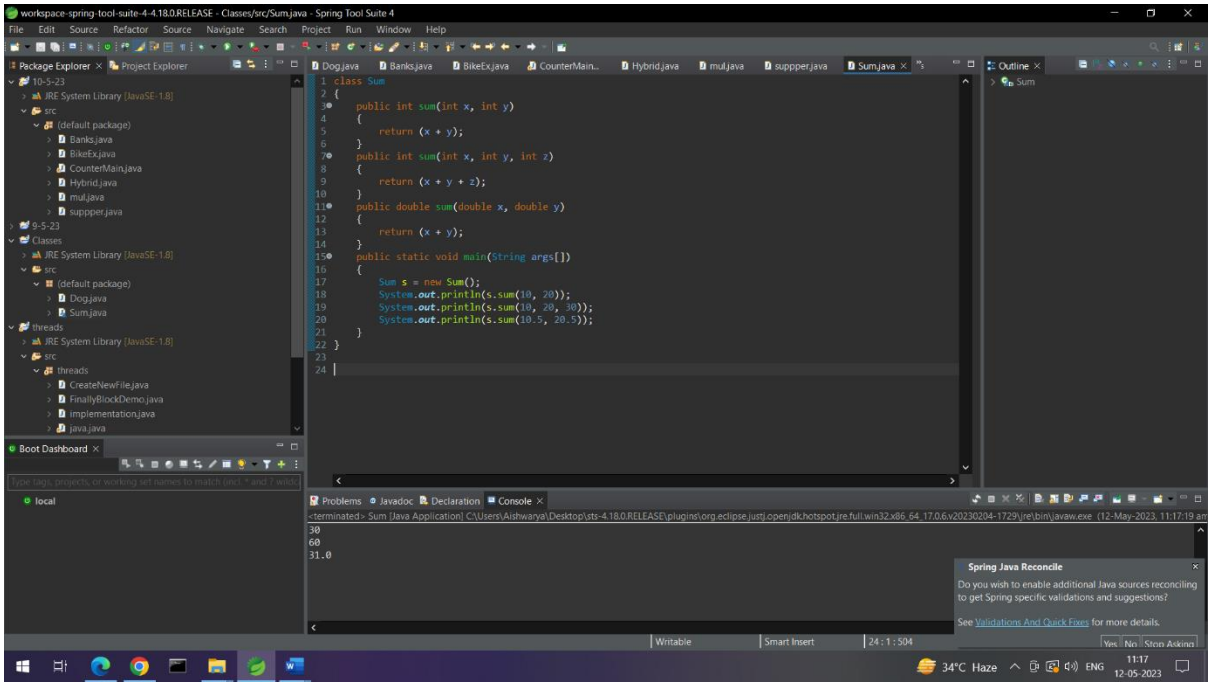
```java
public class Dog
{
    String name;
    String breed;
    int age;
    String color;
    public Dog(String name, String breed, int age, String color)
    {
        this.name = name;
        this.breed = breed;
        this.age = age;
        this.color = color;
    }
    public String getName()
    {
        return name;
    }
    public String getBreed()
    {
        return breed;
    }
    public int getAge()
    {
        return age;
    }
    public String getColor()
    {
        return color;
    }
    @Override
    public String toString()
    {
        return("Hi my name is "+ this.getName()+ ".\nMy breed,age and color are "
+ this.getBreed()+", " + this.getAge()+ ", and"+ this.getColor() + ".");
    }
    public static void main(String[] args)
    {
        Dog scott = new Dog("Scott","papillon", 5, "black");
        System.out.println(scott.toString());
    }
}
```




```java
public class BikeEx{
	public static void main(String[] args) {
		R15 r15=new R15();
		r15.displaySpeed();
	}
}



class Bike{

	int speed=200;
}

class R15 extends Bike{

	void displaySpeed() {
		System.out.println("the bike speed is "+ speed);
	}
}
```

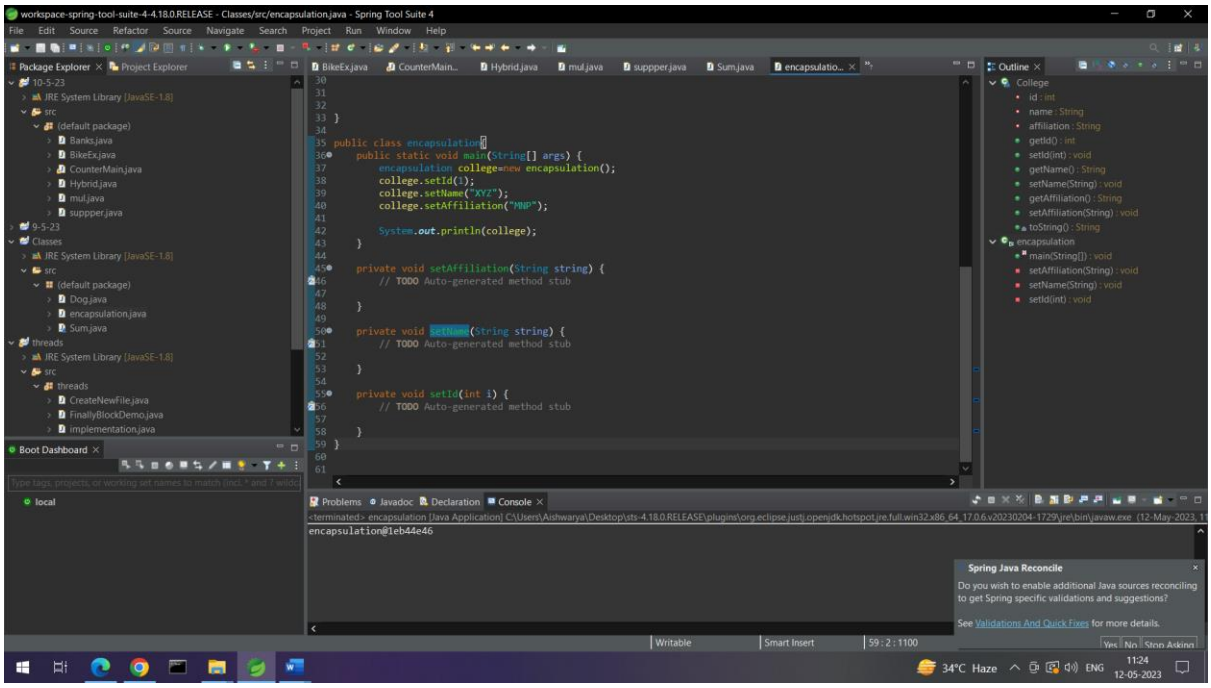



```java
class Sum
{
    public int sum(int x, int y)
    {
        return (x + y);
    }
    public int sum(int x, int y, int z)
    {
        return (x + y + z);
    }
    public double sum(double x, double y)
    {
        return (x + y);
    }
    public static void main(String args[])
    {
        Sum s = new Sum();
        System.out.println(s.sum(10, 20));
        System.out.println(s.sum(10, 20, 30));
        System.out.println(s.sum(10.5, 20.5));
    }
}
```




```java
class College{
	private int id;
	private String name;
	private String affiliation;
	public int getId() {
		return id;
	}
	public void setId(int id) {
		this.id = id;
	}
	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}
	public String getAffiliation() {
		return affiliation;
	}
	public void setAffiliation(String affiliation) {
		this.affiliation = affiliation;
	}



	@Override
	public String toString() {
		return "College [id=" + id + ", name=" + name + ", affiliation=" +
affiliation + "]";
	}



}
```

```java
public class encapsulation{
	public static void main(String[] args) {
		encapsulation college=new encapsulation();
		college.setId(1);
		college.setName("XYZ");
		college.setAffiliation("MNP");

		System.out.println(college);
	}
}
}
```




```java
abstract class Animal {
  // Abstract method (does not have a body)
  public abstract void animalSound();
  // Regular method
  public void sleep() {
    System.out.println("Zzz");
  }
}

// Subclass (inherit from Animal)
class Pig extends Animal {
  public void animalSound() {
    // The body of animalSound() is provided here
    System.out.println("The pig says: wee wee");
  }
}

class aish {
  public static void main(String[] args) {
    Pig myPig = new Pig(); // Create a Pig object
```

```
    myPig.animalSound();
    myPig.sleep();
  }
}
```