Problem Statement 1: Write a program to print "Hello World" using spring framework.

Solution:

```
HelloWorld.java
```

```
package spring1;

public class HelloWorld {
    String name;
    public String getName() { return name;
    }

    public void setName(String name) { this.name = name;
    }

    @Override
    public String toString() {
        return "Hello World, I'm " + name + ".";
    }
}
```

appctx.xml

TestHelloWorld.java

```
}
```

Output:

Problem Statement 2 : Write a program to demonstrate dependency injection via setter method

Solution:

```
Account.java
package spring1;
public class Account {
      int id;
      String name; int balance;
      public Account(int id, String name, int balance) { super();
      this.id = id; this.name = name;
      this.balance = balance;
      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 int getBalance() {
      return balance;
      public void setBalance(int balance) { this.balance = balance;
      @Override
      public String toString() {
      return "Account [id=" + id + ", name=" + name + ", balance=" + balance +
"]";
      }
}
 appctx.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd">
<bean id="Account" class="spring1.Account">
<constructor-arg name="id" value="1"></constructor-arg>
<constructor-arg name="name" value="Batman"></constructor-arg>
<constructor-arg name="balance" value="69000"></constructor-arg>
</bean>
</beans>
```

AccountTest.java

Output:

Problem Statement 3: Write a program to demonstrate dependency injection via Constructor.

```
Solution:
```

```
Singer.java
```

```
package spring1;
public class Singer {
      String name; int age;
      public String getName() { return name;
      public void setName(String name) { this.name = name;
      public int getAge() {
      return age;
      public void setAge(int age) { this.age = age;
      void displayInfo()
      System.out.println("Name:" +name+" Age:" +age);
}
appctx.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd">
<bean id="Singer" class="spring1.Singer">
cproperty name="<u>name"</u> value="Batman"></property>
cproperty name="age" value="28"></property>
</bean>
</beans>
SingerTest.java
package spring1;
import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;
public class SingerTest {
      public static void main(String[] args) {
             ApplicationContext con = new
ClassPathXmlApplicationContext("appctx.xml");
```

```
Singer singer=(Singer)con.getBean("Singer");
singer.displayInfo();
}
```

Output:

