

22/10/24

Create an abstract class Animal with the method eat and sleep. Create subclass Lion, Deer and Tiger that extends the animal class and Implement the method eat and sleep differently based on their specific behaviour.

Program

```
import java.util.Scanner;
```

```
abstract class Animal
```

```
{
```

```
    abstract void eat();
```

```
    abstract void sleep();
```

```
}
```

```
class Lion extends Animal
```

```
{
```

```
    void eat()
```

```
{
```

```
        System.out.println("Lion eats animals");
```

```
}
```

```
    void sleep()
```

```
{
```

```
        System.out.println("Lion sleeps for a long time");
```

```
}
```

```
}
```

```
Class Deers extends Animal
```

```
{
```

```
    void eat()
```

```
{
```

```
        System.out.println("Deers eats grass");
```

```
}
```

```
    void sleep()
```

```
{
```

```
        System.out.println("Deer sleeps for a short time");
```

```
}
```

```
}
```

```
Class Tiger extends Animal
```

```
{
```

```
    void eat()
```

```
{
```

```
        System.out.println("Tiger eats animals");
```

```
}
```

```
    void sleep()
```

```
{
```

```
        System.out.println("Tiger sleeps");
```

```
}
```

```
}
```

```
public class Main
```

```
{
```

```
    public static void main (String[] args)
```

```
{
```


2.

Animal ~~l~~ = new lion();

l.eat();

l.sleep();

Animal d = new deer();

d.eat();

d.sleep();

Animal t = new tiger();

t.eat();

t.sleep();

}

}

Output

Lion eats animals.

Lion sleeps for a long time.

Deer eats grass.

Deer sleeps for a short time.

Tiger eats animals.

Tiger sleeps for a long time.

22-10
o/p Seen

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>javac Main.java

C:\Users\Admin\Downloads>java Main

Lion eats animals

Lion sleeps for a long time

Deer eats grass

Deer sleeps for a short time

Tiger eats animals

Tiger sleeps for a long time

Dharunya Balavelavan

1BM23CS090

C:\Users\Admin\Downloads>_