

Name – Moitrish Maity

Roll – 48

3rd year 5th sem

Lab Day 4

1)

a)

```
class Vehicle{  
    void Type(){  
        System.out.println("Type: Exotic");  
    }  
    public static void main(String[] args) {  
        Brand br = new Brand();  
        br.Type();  
        br.Brand();  
    }  
}
```

```
class Brand extends Vehicle{  
    void Brand(){  
        System.out.println("Brand: Rolls Royce");  
    }  
}
```

```
}
```

Output:

```
Type: Exotic  
Brand: Rolls Royce
```

b)

```
class grandfather{  
  
    void name_gf(){  
  
        System.out.println("Grandfather's name: Johnathan Joester");  
  
    }  
  
    public static void main(String[] args) {  
  
        son s = new son();  
  
        s.name_s();  
  
        s.name_f();  
  
        s.name_gf();  
  
    }  
}
```

```
class father extends grandfather{  
  
    void name_f(){  
  
        System.out.println("Father's name: Joseph Joester");  
  
    }  
}
```

```
class son extends father{  
  
    void name_s(){  
  
        System.out.println("Son's name: Josuke Higashikata");  
  
    }  
}
```

```
}
```

```
}
```

Output:

```
Son's name: Josuke Higashikata  
Father's name: Joseph Joester  
Grandfather's name: Johnathan Joester
```

c)

```
public class Hierarchical {
```

```
    static class Brand{
```

```
        String brand(){
```

```
            String brand = "Apple";
```

```
            return brand;
```

```
        }
```

```
    }
```

```
    static class earphone extends Brand{
```

```
        String earphone(){
```

```
            String earphone = "Airpods";
```

```
            return earphone;
```

```
        }
```

```
    }
```

```
    static class Watch extends Brand{
```

```
        String watch(){
```

```

        String watch = "Apple Watch";

        return watch;
    }
}

public static void main(String[] args) {

    earphone ep = new earphone();

    Watch wt = new Watch();

    System.out.println("Product: "+ep.earphone() + " Brand: " + ep.brand());

    System.out.println("Product: "+wt.watch() + " Brand: " + wt.brand());

}
}

```

Output:

```

Product: AirPods Brand: Apple
Product: Apple Watch Brand: Apple

```

2)

```

class Company{

    void Address(){

        System.out.println("You have called parent class");

    }

}

```

```

class Amazon extends Company{

    void Address(){

        System.out.println("CEO of Amazon: Andy Jassy");

        System.out.println("Address of Amazon: 440 Terry Avenue North Seattle, WA 98109 USA");

    }

}

```

```

    }
}

class Flipkart extends Company{

    void Address(){

        System.out.println("CEO of Flipkart: Kalyan Krishnamurthy");

        System.out.println("Address of Flipkart: Ozone Manay Tech Park, #56/18 and 55/09, seventh
Floor, Bangalore Karnataka");

    }

}

```

```

public class Overriding{

    public static void main(String[] args){

        Amazon am = new Amazon();

        Flipkart fp = new Flipkart();

        Company cp = new Company();

        am.Address();

        fp.Address();

        cp.Address();

    }

}

```

Output:

```

CEO of Amazon: Andy Jassy
Address of Amazon: 440 Terry Avenue North Seattle, WA 98109 USA
CEO of Flipkart: Kalyan Krishnamurthy
Address of Flipkart: Ozone Manay Tech Park, #56/18 and 55/09, seventh Floor, Bangalore Karnataka
You have called parent class

```