**Module-3**

**Assignment-1**

**CODE:**

**Animal class:**

**package** Module\_3;

**import** java.io.\*;

**public** **class** Animal {

String family;

Animal(){

family=" ";

}

Animal(String f){

family=f;

}

}

**Fish class:**

**package** Module\_3;

**import** java.io.\*;

**public** **class** Fish **extends** Animal{

String habitat;

String type;

Fish(){

habitat=" ";

type=" ";

}

Fish(String f,String h,String t) {

**super**(f);

habitat=h;

type=t;

}

}

**Shark class:**

**package** Module\_3;

**import** java.io.\*;

**public** **class** Shark **extends** Fish{

String kind;

Shark(){

kind=" ";

}

Shark(String f,String h,String t,String k){

**super**(f,h,t);

kind=k;

}

**void** display() {

System.***out***.println(kind+" is an "+family+" which lives in "+habitat+", hence it is "+type+".");

}

}

**Environment class:**

**package** Module\_3;

**import** java.io.\*;

**public** **class** Environment {

**public** **static** **void** main(String args[])**throws** IOException{

InputStreamReader isr=**new** InputStreamReader(System.***in***);

BufferedReader br=**new** BufferedReader(isr);

System.***out***.println("Enter the Animal Family: ");

String f=br.readLine();

System.***out***.println("Enter the Fish Habitat: ");

String h=br.readLine();

System.***out***.println("Enter the Fish Type: ");

String t=br.readLine();

System.***out***.println("Enter the Shark Kind: ");

String k=br.readLine();

Shark ob=**new** Shark(f,h,t,k);

ob.display();

}

}

**OUTPUT:**

Enter the Animal Family:

Animal

Enter the Fish Habitat:

Water

Enter the Fish Type:

Aquatic

Enter the Shark Kind:

Shark

Shark is an Animal which lives in Water, hence it is Aquatic.