(1) Wrp to in java to create a class Animal having following features: name, type and two member functions in U to input the details and out() for printing the details. Create three objects having name lion, dog and cow and their respective eating type as carnivore, omnivore and herbivore and print the details.

```java
class Animal {
String name;
String type;

void in (String nm, String ty) {
name = nm;
type = ty;
}

void out() {
    System.out.println(name + " " + type);
}
}

public class Prog1 {
public static void main (String[] args) {
Animal a1 = new Animal();
Animal a2 = new Animal();
Animal a3 = new Animal();
a1.in(nm: "Lion", ty: "carnivore");
a2.in(nm: "Dog", ty: "omnivore");
a3.in(nm: "cow", ty: "herbivore");
a1.out();
a2.out();
a3.out();
}
}
```

(2) Program to print the corresponding grade for the given marks using if..else statement in Java

```
>90 ...... O
81-90 ...... E
71-80 ...... A
61-70 ...... B
51-60 ...... C
40-50 ...... Pass
<40 ...... Fail
```

```java
import Java.util.Scanner;

public class Grade {

public static void main (String [] args){

Scanner Scanner = new Scanner (System.in);

System.out.print (s: "Enter marks:");

int marks = Scanner.nextInt ();

String grade;

if (marks >90){
    grade = "O";
} else if (marks > 80){
    grade = "E";
} else if (marks >70){
    grade = "A";
} else if (marks > 60){
    grade = "B";
} else if (marks > 50){
    grade = "C";
} else if (marks > 40){
    grade = "Pass";
```

```java
  } else {
      grade = "fail";
  }
  System.out.println("grade:" + grade);
  }
}
```

(3) WAP to create a class Employee with data members empd, name and salary. Use inp() to take the input to the employee and use disp() to print the employee details. Create 3 objects of employees and display their details.

```java
import java.util.Scanner;

public class Employee {
  private int empd;
  private String name;
  private double salary;

  public void inp() {
  Scanner scanner = new Scanner(System.in);

  System.out.print("Enter employee ID: ");
  empid = scanner.nextInt();

  System.out.print("Enter employee name:");
  name = scanner.next();

  System.out.print("Enter employee salary:");
  salary = scanner.nextDouble();
  }
```

```java
Public void disp(){
    System.out.println(" Employee ID: " + empid );
    System.out.println(" Employee Name :" + name);
    System.out.println(" Employee Salary : " + salary);
}

Public static void main (String [] args){
    Employee emp1 = new Employee();
    System.out.println("Enter details for Employee 1:");
    emp1.inp();
    emp1.disp();

    Employee emp2 = new Employee();
    System.out.println("Enter details for Employee 2:");
    emp2.inp();
    emp2.disp();
}
}
```