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Batch No: - 1 Batch

Q4)

```
package codingPractiseTest;

class Animal{
    void shout() {
    }
}

class Dog extends Animal{
    @Override
    void shout() {
        System.out.println("Dog : Bark");
    }
}

class Horse extends Animal{
    @Override
    void shout() {
        System.out.println("Horse : Neigh");
    }
}

class Cat extends Animal{
    @Override
    void shout() {
        System.out.println("Cat : Meow");
    }
}

public class AnimalDemo {

    public static void main(String[] args) {

        Dog dog=new Dog();
        Horse horse=new Horse();
        Cat cat=new Cat();

        dog.shout();
        horse.shout();
        cat.shout();

    }

}
```

Q1)

```
package PersonAge;

import java.util.Scanner;

public class AgeFinder {

    public static void main(String[] args) {
        int i,count1=0,count2=0,count3=0;
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the number of elements you want : ");
        int n = input.nextInt();
        int age[] = new int[n];
        System.out.println("Enter the elements one by one : ");
        for(i=0;i<n;i++)
        {
            age[i]=input.nextInt();
        }

        for(i=0;i<n;i++)
        {
            if(age[i]<18)
            {
                count1++;
            }

            else if(age[i]>= 18 && age[i]<=54)
            {
                count2++;
            }

            else
            {
                count3++;
            }
        }

        System.out.println("Children : "+count1 +"\n"+"Adult : "+count2+"\n"+"Senior Citizen : "+count3);

        input.close();
    }
}
```

Q2)

```
package codingPractiseTest;
class Employee{
    String firstName;
    String lastName;
    public Employee(String firstName, String lastName) {
        super();
        this.firstName = firstName;
        this.lastName = lastName;
    }
    @Override
    public String toString() {
        return "Employee [firstName=" + firstName + ", lastName=" + lastName + "];"
    }
}

public class EmployeeDemo {

    public static void main(String[] args) {
        Employee e1=new Employee("Virat", "Kholi");
        Employee e2=new Employee("Rahul", "Dravid");
        Employee e3=new Employee("Rohit", "Sharama");

        System.out.println(e1);
        System.out.println(e2);
        System.out.println(e3);
    }
}
```

Q3)

```
package codingPractiseTest;
class Employee1 {
    private String firstname;
    private String lastname;

    public Employee1(String firstname, String lastname) {
        super();
        this.firstname = firstname;
        this.lastname = lastname;
    }

    void validation() {
        if (firstname == null || lastname == null)
            throw new NullPointerException("Entery Missing");
        else if (firstname.length() < 3 || lastname.length() < 3)
            throw new ArithmeticException("Name should be minimum 3 character ");
    }
}

public class ExceptionDemo {

    public static void main(String[] args) {
        Employee1 e1 = new Employee1(null, null);
        e1.validation();
    }
}
```