Practical No. 5

```
package Prac5;
import java.util.Scanner;
interface Vehicle
      abstract void gearChange(int a);
      abstract void applyBreak(int a);
      abstract void speedUp(int a);
}
class Bicycle implements Vehicle
      public void gearChange(int gear)
            System.out.println("Gear Number : "+gear);
      public void applyBreak(int bre)
            if(bre == 1) {
                  System.out.println("Break Applied!!!");
            else {
                  System.out.println("Break Not Applied!!!");
      public void speedUp(int speed)
            System.out.println("Bicycle speed is : "+speed);
}
class Cycle implements Vehicle
      public void gearChange(int gear)
            System.out.println("Gear Number : "+gear);
      public void applyBreak(int bre)
            if(bre == 1) {
                  System.out.println("Break Applied!!!");
            else {
                  System.out.println("Break Not Applied!!!");
      }
      public void speedUp(int speed)
            System.out.println("Bicycle speed is : "+speed);
}
class Car implements Vehicle
      public void gearChange(int gear)
```

```
System.out.println("Gear Number : "+gear);
      public void applyBreak(int bre)
            if(bre == 1) {
                  System.out.println("Break Applied!!!");
            else {
                  System.out.println("Break Not Applied!!!");
      public void speedUp(int speed)
            System.out.println("Bicycle speed is : "+speed);
}
class Inter Vehicle
      public static void main(String args[])
            Scanner sc = new Scanner(System.in);
            int ch;
            do
                  System.out.println("\nStatus of
Vehicle\n1.Bicycle\n2.Cycle\n3.Car");
                  System.out.println("Enter your choice : ");
                  ch = sc.nextInt();
                  System.out.println("\n");
                  switch (ch)
                   {
                         case 1:
                               Bicycle b = new Bicycle();
                               b.gearChange(1);
                               b.speedUp(30);
                               b.applyBreak(1);
                               break;
                         case 2:
                               Cycle c = new Cycle();
                               c.gearChange(1);
                               c.speedUp(20);
                               c.applyBreak(1);
                               break;
                         case 3:
                               Car ca = new Car();
                               ca.gearChange(2);
                               ca.speedUp(50);
                               ca.applyBreak(0);
                               break;
                         case 4:
                               break;
            } while (ch<4);
```

```
}
```

OUTPUT:

```
Status of Vehicle
1.Bicycle
2.Cycle
3.Car
Enter your choice :
Gear Number : 1
Bicycle speed is : 30
Break Applied!!!
Status of Vehicle
1.Bicycle
2.Cycle
3.Car
Enter your choice :
Gear Number : 1
Bicycle speed is : 20
Break Applied!!!
Status of Vehicle
1.Bicycle
2.Cycle
3.Car
Enter your choice :
Gear Number: 2
Bicycle speed is : 50
Break Not Applied!!!
Status of Vehicle
1.Bicycle
2.Cycle
3.Car
Enter your choice :
```