OOP Assignment 1

1. Consider the following codes:

```
[5]
```

```
class Vehicle {
                                                 Output:
protected String brand;
                                                 A vehicle horn is a
                                                 sound-making device.
                                                 Tuut, tuut!
public Vehicle(String brand) {
   this.brand = brand;
                                                 Ford Mustang
}
public void honk() {
 System.out.println("Tuut, tuut!");
public class Car extends Vehicle {
private String modelName;
// Invoke parent class constructor;
// Invoking overriding method;
public static void main(String[] args) {
  Car myCar = new Car("Ford", "Mustang");
  myCar.honk();
  System.out.println(myCar.brand + " " +
myCar.modelName);
```

Now:

- I. Write the constructor of the car class and invoke the parent class constructor.
- II. Override the honk() method and print "A vehicle horn is a sound-making device." then invoke the overridden method.

[5]

```
class Calculate{
 static int count=10;
 static{ System.out.println("United International University"); }
 static int cube(int x){
  return x*x*x;
 public static void Counter(){
  count++;//incrementing the value of static variable
  System.out.println(count);
 }
 public static void main(String args[]){
  Calculate.Counter();
  Calculate c1 = new Calculate();
  c1.Counter();
  Calculate c2 = new Calculate();
  c2.Counter();
  System.out.println(c1.count);
  int result=Calculate.cube(Calculate.count);
  System.out.println(result);
```