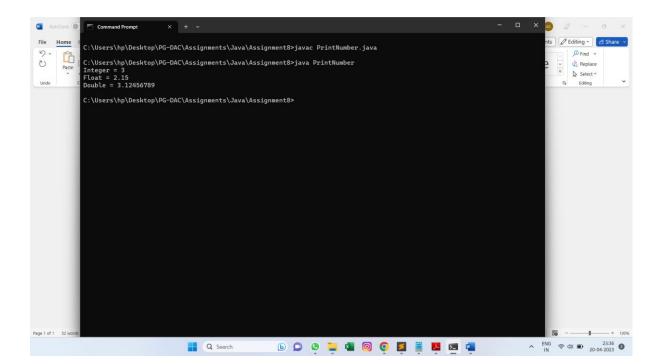
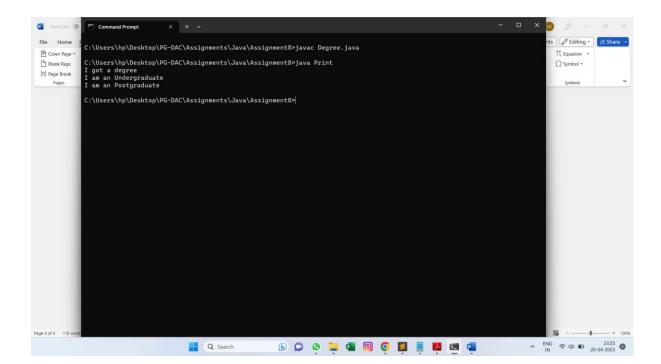
230350320047_Amruta Khandare_OOPS8

```
Q1:
public class PrintNumber{
      int i;
      float f;
      double d;
      public void printn(int i){
             System.out.println("Integer = "+i);
      }
      public void printn(float f){
             System.out.println("Float = "+f);
      }
      public void printn(double d){
             System.out.println("Double = "+d);
      }
      public static void main(String[] args) {
             PrintNumber p1 = new PrintNumber();
             p1.printn(3);
             p1.printn(2.15f);
             p1.printn(3.12456789);
      }
}
```

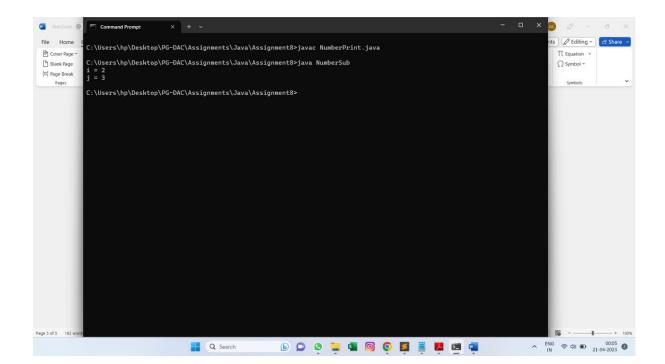


```
Q2:
public class Degree{
      public void getDegree(){
            System.out.println("I got a degree");
      }
      }
      class Undergraduate extends Degree{
            public void getDegree(){
            }
      }
      class Postgraduate extends Degree{
            public void getDegree(){
            }
      }
      class Print{
      public static void main(String[] args) {
```

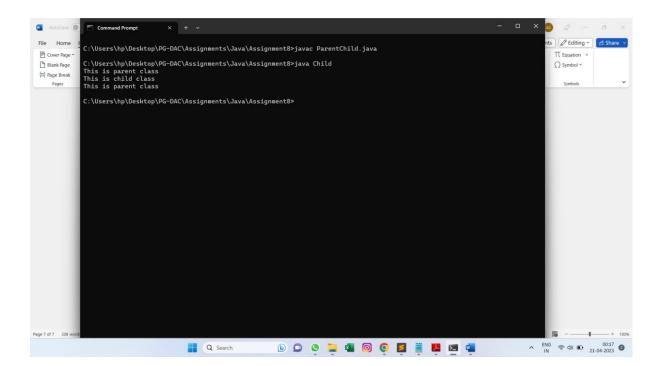
```
System.out.println("I am an Undergraduate");
                  System.out.println("I am an Postgraduate");
            Degree d1 = new Degree();
            Undergraduate u1 = new Undergraduate();
            Postgraduate p1 = new Postgraduate();
            d1.getDegree();
            u1.getDegree();
            p1.getDegree();
     }
}
```



```
Q3:
public class NumberPrint{
      int i;
      public void numberPrint(int i){
            System.out.println(i);
      }
}
class NumberSub{
      int j;
      public void numberPrint(int i, int j){
            System.out.println("i = "+i+"\nj = "+j);
      }
public static void main(String[] args) {
      NumberSub n1 = new NumberSub();
      n1.numberPrint(2,3);
}
}
```

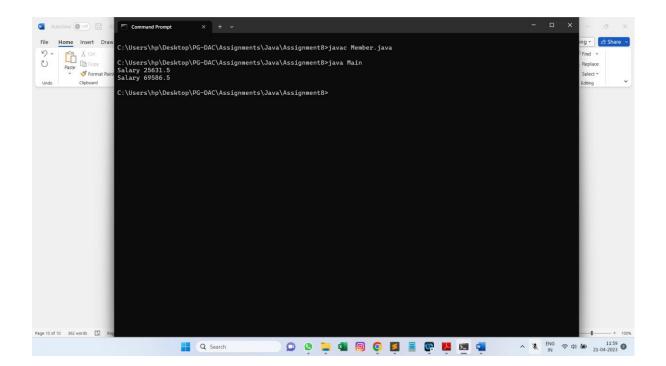


```
Q4:
public class ParentChild{
public void printClass(){
      System.out.println("This is parent class");
}
}
class Child extends ParentChild{
public void printChild(){
             System.out.println("This is child class");
}
public static void main(String[] args) {
      ParentChild p1 = new ParentChild();
      Child c1 = new Child();
      p1.printClass();
      c1.printChild();
      c1.printClass();
}
}
```



```
Q5:
public class Member {
  private String name;
  private int age;
  private String phoneNumber;
  private String address;
  private double salary;
  public Member(String name, int age, String phoneNumber, String address,
double salary) {
    this.name = name;
    this.age = age;
    this.phoneNumber = phoneNumber;
    this.address = address;
    this.salary = salary;
  }
  public void printSalary() {
    System.out.println("Salary " + salary);
  }
}
class Employee extends Member {
  private String specialization;
  public Employee(String name, int age, String phoneNumber,
           String address, double salary, String specialization) {
```

```
super(name, age, phoneNumber, address, salary);
    this.specialization = specialization;
  }
}
class Manager extends Member{
  private String department;
  public Manager(String name, int age, String phoneNumber,
           String address, double salary, String department) {
    super(name, age, phoneNumber, address, salary);
    this.department = department;
  }
}
class Main {
  public static void main(String[] args) {
    Employee employee = new Employee("Tom", 25, "555-555-55", "Home",
25631.5, "IT");
    Manager manager = new Manager("Ron", 30, "555-617-55", "Earth",
69586.5, "IT");
    employee.printSalary();
    manager.printSalary();
  }
}
```

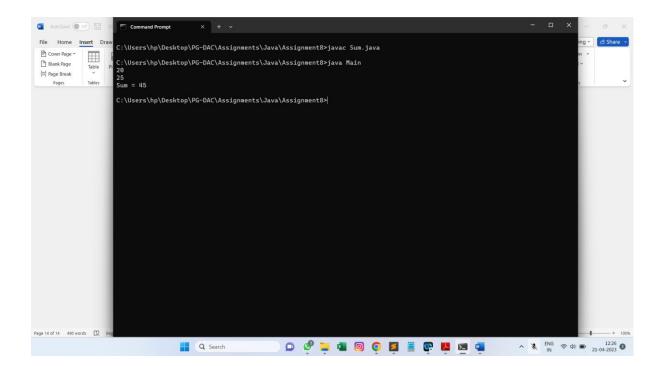


```
Q6:
public class Shape{
      public void printShape(){
             System.out.println("This is Shape");
      }
}
class Rectangle extends Shape{
      public void printRectangle(){
             System.out.println("This is rectanglular shape");
      }
}
class Square extends Rectangle{
      public void printSquare(){
             System.out.println("Square is a rectangle");
      }
}
class Circle extends Shape{
      public void printCircle(){
             System.out.println("This is circlular shape");
      }
}
class Main{
      public static void main(String[] args) {
             Square sq1 = new Square();
             sq1.printShape();
             sq1.printRectangle();
```

}

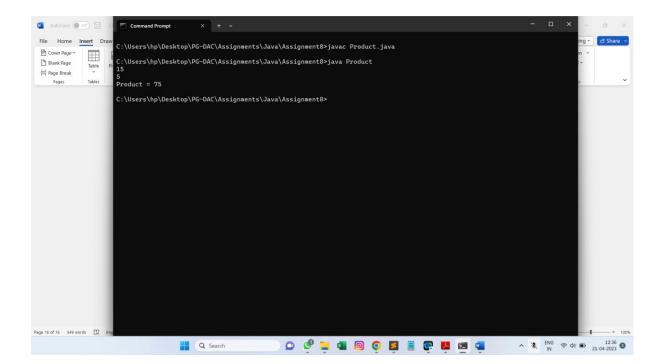
}

```
Q7:
import java.util.Scanner;
public class Sum{
      Scanner sc = new Scanner(System.in);
      int a = sc.nextInt();
      int b = sc.nextInt();
      int sum = a+b;
      public void Sum(int a, int b){
             this.a = a;
            this.b = b;
      }
      public void printSum(){
             System.out.println("Sum = "+sum);
      }
}
class Main{
public static void main(String[] args) {
      Sum s1 = new Sum();
      s1.printSum();
}
}
```



```
Q8:
```

```
import java.util.Scanner;
public class Product{
      Scanner sc = new Scanner(System.in);
      int a = sc.nextInt();
      int b = sc.nextInt();
      int product = a*b;
      public void Product(int a, int b){
             this.a = a;
             this.b = b;
      }
      public int printProduct(){
             System.out.println("Product = "+product);
             return product;
      }
public static void main(String[] args) {
      Product p1 = new Product();
      p1.printProduct();
}
}
```

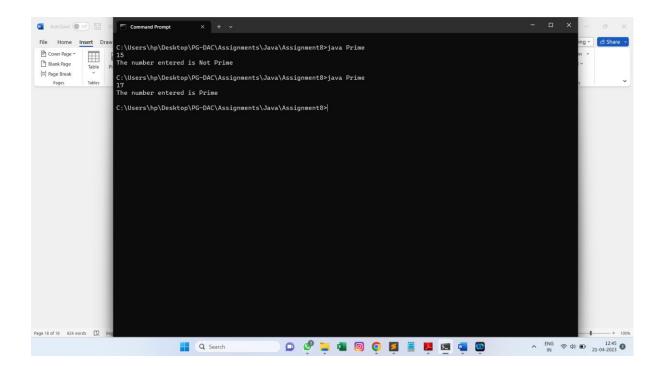


```
Q9:
import java.util.Scanner;
public class Prime{
      Scanner sc = new Scanner(System.in);
      int i = 2, count = 0;
      int n = sc.nextInt();
      public void Product(int n){
             this.n = n;
      }
      public void printPrime(){
             for(i = 2; i < n; i++){
                   if(n \% i == 0)
                          count++;
             }
             if (count == 0)
             System.out.println("The number entered is Prime");
             else
             System.out.println("The number entered is Not Prime");
      }
public static void main(String[] args) {
      Prime p1 = new Prime();
```

p1.printPrime();

}

}



```
Q10:
public class Reverse{
      int Number, i, digit, reverse = 0;
      public Reverse(int Number){
            this.Number = Number;
      }
      public void printReverse(){
            System.out.println("Number : "+Number);
            i = 0;
            while (Number > 0) {
                   digit = Number % 10;
                   reverse = reverse*10 + digit;
                   Number = Number / 10;
            }
                   System.out.println("Reverse : "+reverse);
      }
      public static void main(String[] args) {
            Reverse r1 = new Reverse(123);
            r1.printReverse();
      }
}
```

