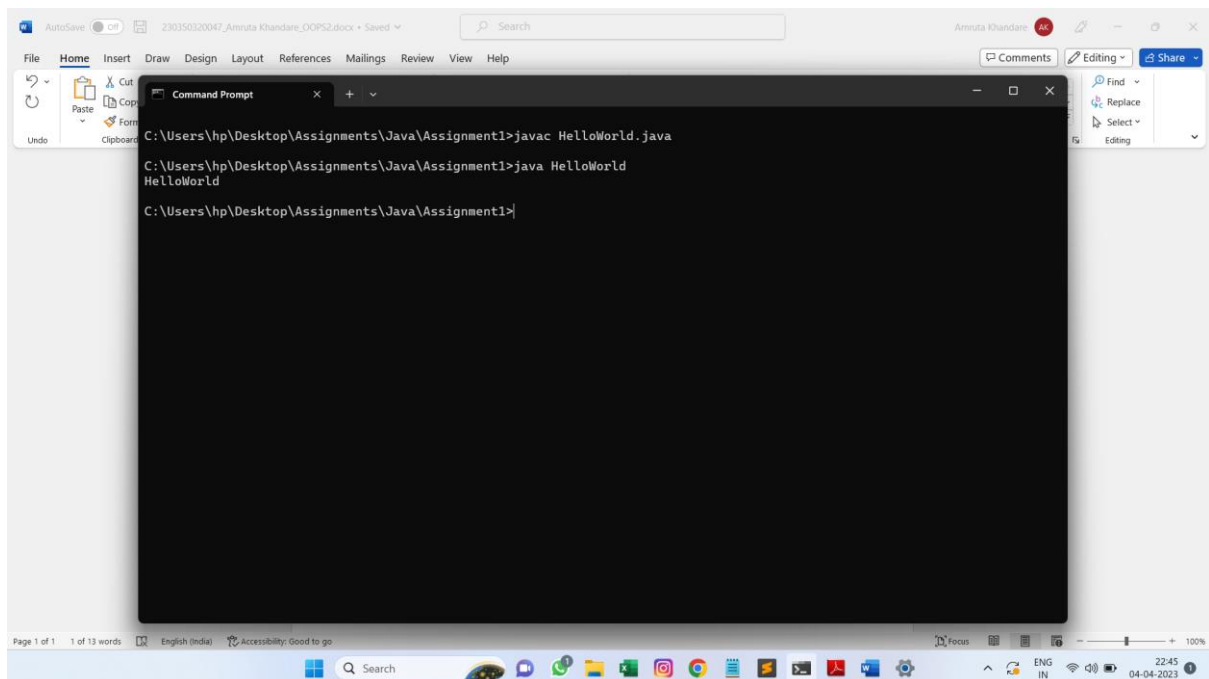


230350320047_Amruta Khandare_OOPS1

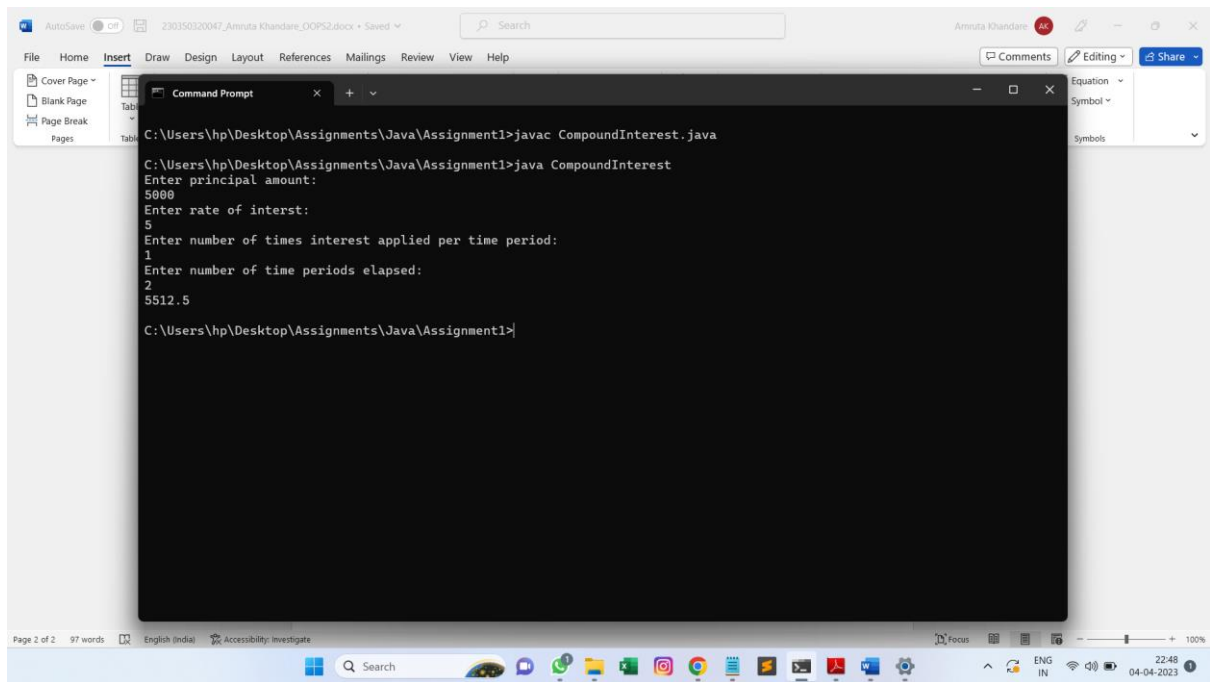
Q1:

```
class HelloWorld{  
  
    public static void main(String[] args){  
  
        System.out.println("HelloWorld");  
  
    }  
  
}
```



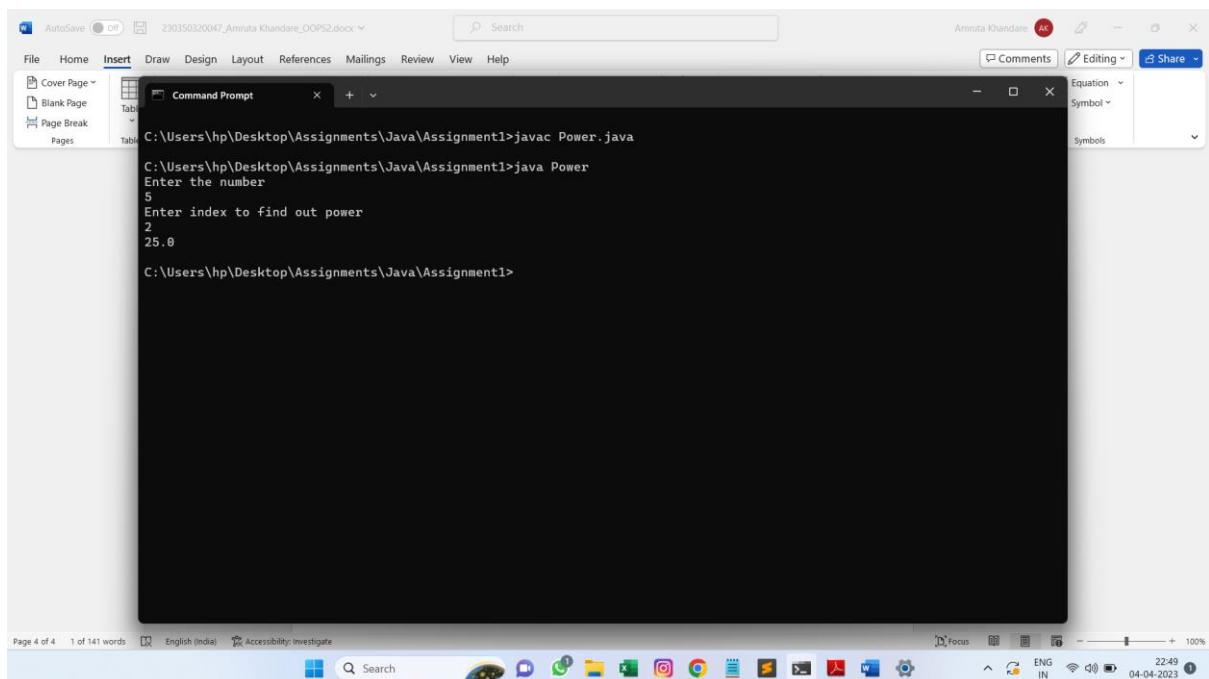
Q3:

```
import java.util.Scanner;
import java.io.*;
public class CompoundInterest
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter principal amount: ");
        double p = sc.nextDouble();
        System.out.println("Enter rate of interest: ");
        double r = sc.nextDouble();
        System.out.println("Enter number of times interest applied per
time period: ");
        double n = sc.nextDouble();
        System.out.println("Enter number of time periods elapsed: ");
        double t = sc.nextDouble();
        double temp1 = (1 + (r/100));
        double temp2 = n*t;
        double temp3 = Math.pow(temp1, temp2);
        double c = p*temp3;
        System.out.println(c);
    }
}
```



Q4:

```
import java.io.*;
import java.util.Scanner;
class Power
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number");
        int a = sc.nextInt();
        System.out.println("Enter index to find out power");
        int b = sc.nextInt();
        double p = Math.pow(a, b);
        System.out.println(p);
    }
}
```



The screenshot shows a Microsoft Word document titled "230150120047_Amruta Khandare_OOPS2.docx" with a Command Prompt window overlaid. The Command Prompt shows the following commands and output:

```
C:\Users\hp\Desktop\Assignments\Java\Assignment1>javac Power.java
C:\Users\hp\Desktop\Assignments\Java\Assignment1>java Power
Enter the number
5
Enter index to find out power
2
25.0
C:\Users\hp\Desktop\Assignments\Java\Assignment1>
```

The Word document's ribbon shows the "Insert" tab, and the status bar at the bottom indicates "Page 4 of 4", "1 of 141 words", "English (India)", and "Accessibility: Investigate". The system tray at the bottom shows the date and time as "04-04-2023" and "22:49".

Q5:

```
import java.util.Scanner;
```

```
import java.io.*;
```

```
public class Swapping1{
```

```
    public static void main(String[] args) {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter Number1: ");
```

```
        int a = sc.nextInt();
```

```
        System.out.println("Enter Number2: ");
```

```
        int b = sc.nextInt();
```

```
        System.out.println("Before Swapping:" + " a = " +a + " b = " +b);
```

```
        int temp = a;
```

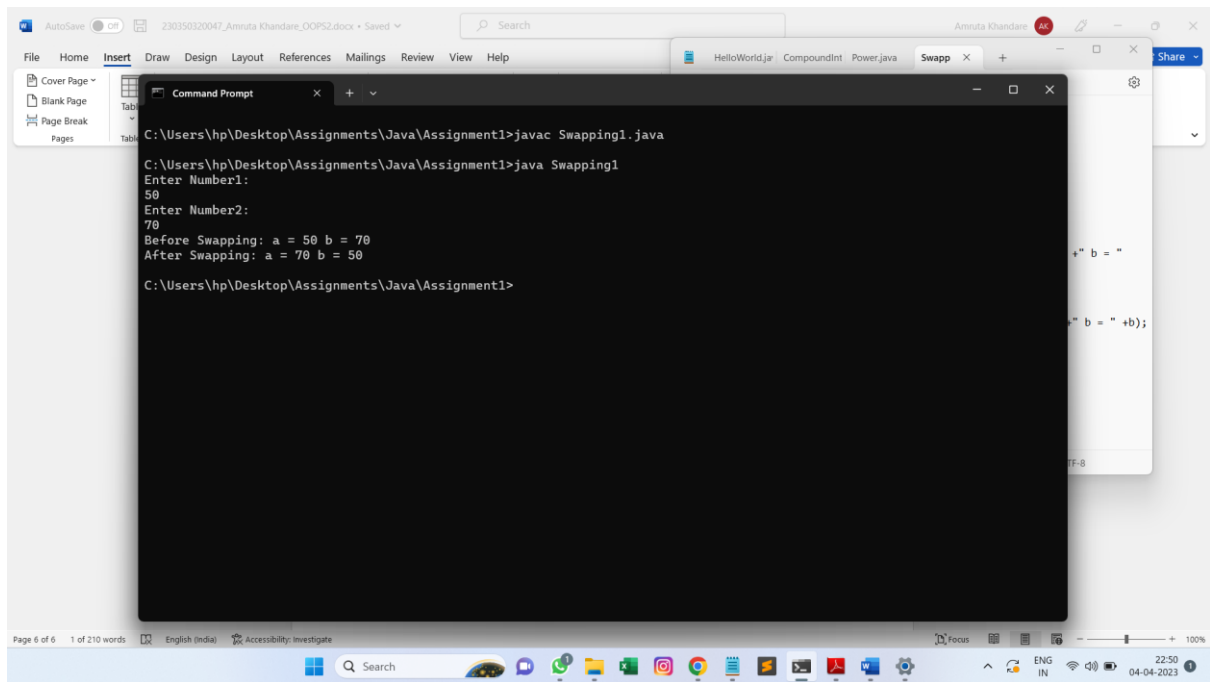
```
        a = b;
```

```
        b = temp;
```

```
        System.out.println("After Swapping:" + " a = " +a + " b = " +b);
```

```
    }
```

```
}
```



Q6:

```
import java.util.Scanner;
```

```
import java.io.*;
```

```
public class Rectangle{
```

```
    public static void main(String[] args) {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter Length: ");
```

```
        int l = sc.nextInt();
```

```
        System.out.println("Enter Breadth: ");
```

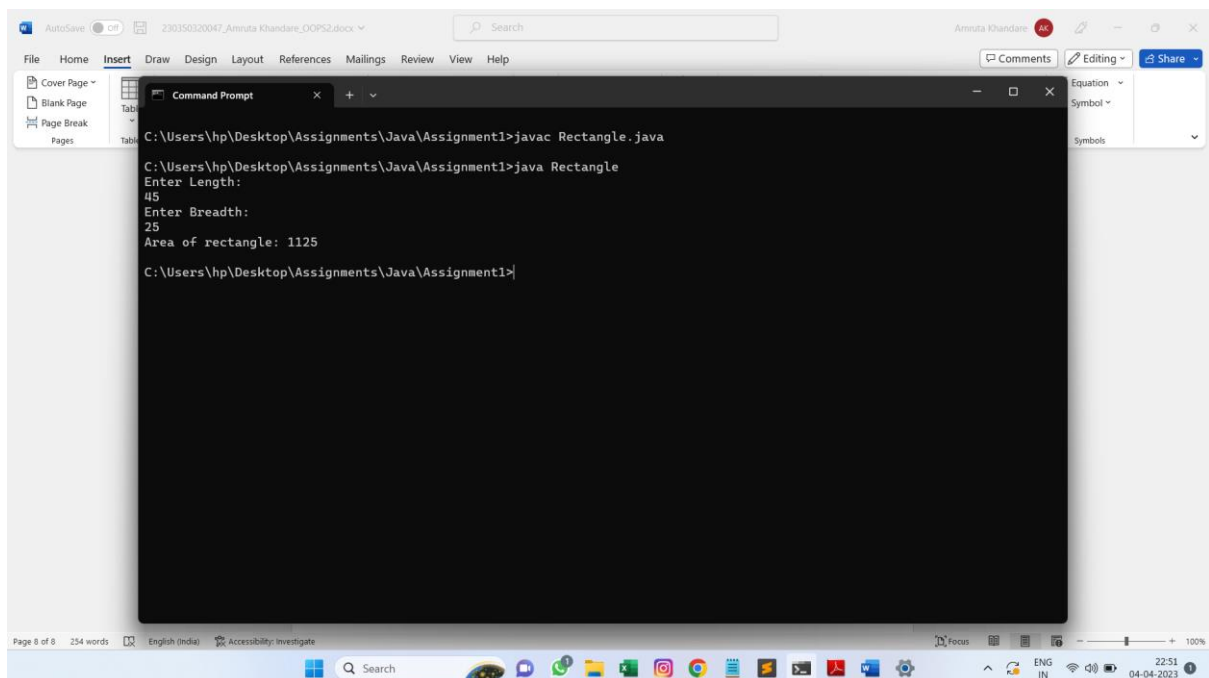
```
        int b = sc.nextInt();
```

```
        int area = l*b;
```

```
        System.out.println("Area of rectangle: " +area);
```

```
    }
```

```
}
```



The screenshot shows a Microsoft Word document titled "230150120047_Amrita Khandare_OOP52.docx" with the "Insert" tab selected. A "Command Prompt" window is overlaid on the document, displaying the execution of a Java program. The program prompts the user to enter the length and breadth of a rectangle, and then calculates and displays the area. The user has entered 45 for the length and 25 for the breadth, resulting in an area of 1125.

```
C:\Users\hp\Desktop\Assignments\Java\Assignment1>javac Rectangle.java
C:\Users\hp\Desktop\Assignments\Java\Assignment1>java Rectangle
Enter Length:
45
Enter Breadth:
25
Area of rectangle: 1125
C:\Users\hp\Desktop\Assignments\Java\Assignment1>
```


Q7:

```
import java.util.Scanner;
```

```
import java.io.*;
```

```
public class Circle{
```

```
    public static void main(String[] args) {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter Radius of Circle: ");
```

```
        double r = sc.nextDouble();
```

```
        final double PI = 3.14;
```

```
        double area = 2*PI*r;;
```

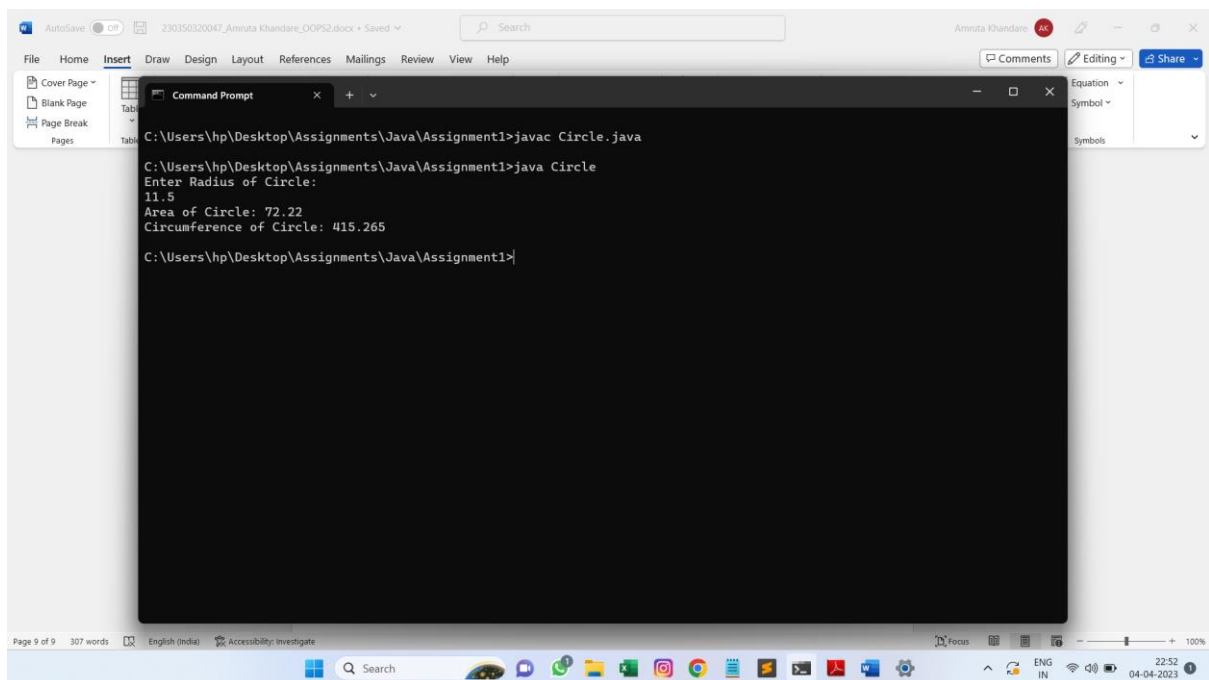
```
        System.out.println("Area of Circle: " +area);
```

```
        double circumference = PI*r*r;;
```

```
        System.out.println("Circumference of Circle: " +circumference);
```

```
    }
```

```
}
```



Q8:

```
import java.util.Scanner;

class ASCII{

    public static void main(String[] args)

{

    Scanner sc = new Scanner(System.in);

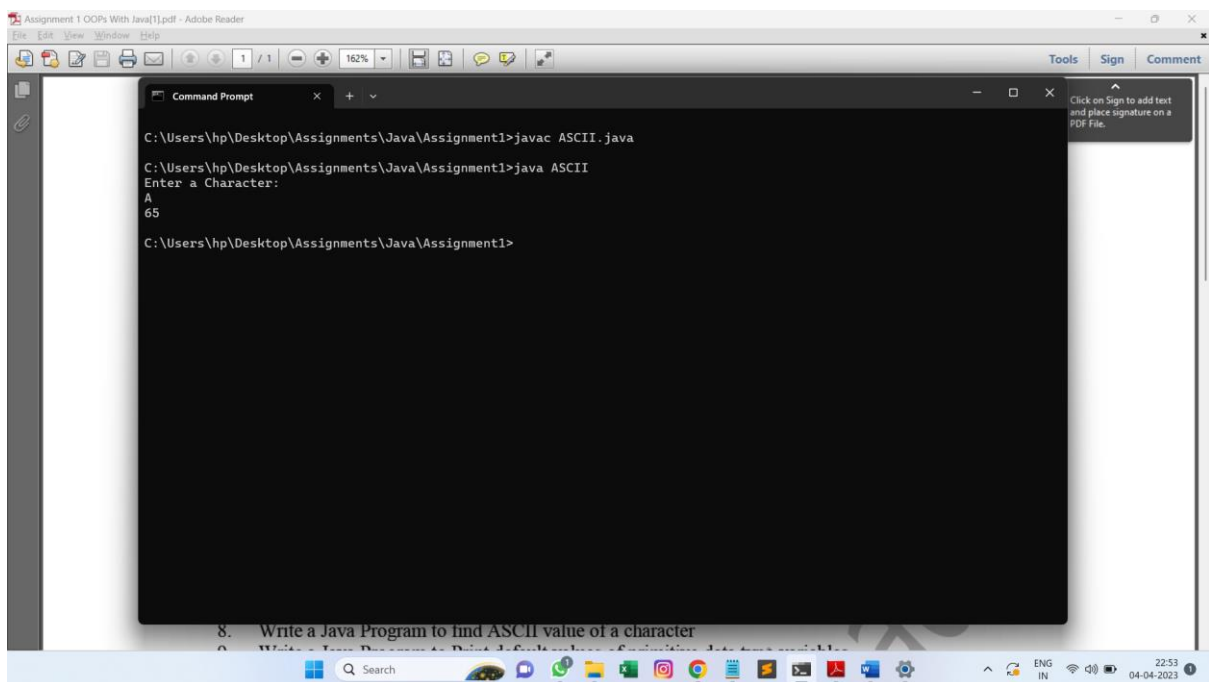
    System.out.println("Enter a Character: ");

    char c = sc.next().charAt(0);

    System.out.println((int)c);

}

}
```

A screenshot of a Windows desktop environment. In the background, a PDF reader window titled 'Assignment 1 OOPs With Java11.pdf - Adobe Reader' is open, showing a document with a sidebar and a toolbar. Overlaid on top of the PDF reader is a black 'Command Prompt' window. The command prompt shows the following text: 'C:\Users\hp\Desktop\Assignments\Java\Assignment1>javac ASCII.java', 'C:\Users\hp\Desktop\Assignments\Java\Assignment1>java ASCII', 'Enter a Character:', 'A', and '65'. The Windows taskbar is visible at the bottom, featuring a search bar, several application icons, and system tray icons on the right showing the time as 22:53 and date as 04-04-2023.

```
C:\Users\hp\Desktop\Assignments\Java\Assignment1>javac ASCII.java
C:\Users\hp\Desktop\Assignments\Java\Assignment1>java ASCII
Enter a Character:
A
65
C:\Users\hp\Desktop\Assignments\Java\Assignment1>
```

Q9:

```
import java.util.Scanner;
```

```
class DefaultValues{
```

```
    static boolean b;
```

```
    static double d;
```

```
    static float f;
```

```
    static int i;
```

```
    static long l;
```

```
    static char c;
```

```
    static short s;
```

```
    static byte t;
```

```
    public static void main(String[] args){
```

```
        System.out.println("Default values of primitive data type variables  
are:");
```

```
        System.out.println("boolean (Initial Value) = " + b);
```

```
        System.out.println("double (Initial Value) = " + d);
```

```
        System.out.println("float (Initial Value) = " + f);
```

```
        System.out.println("int (Initial Value) = " + i);
```

```
        System.out.println("long (Initial Value) = " + l);
```

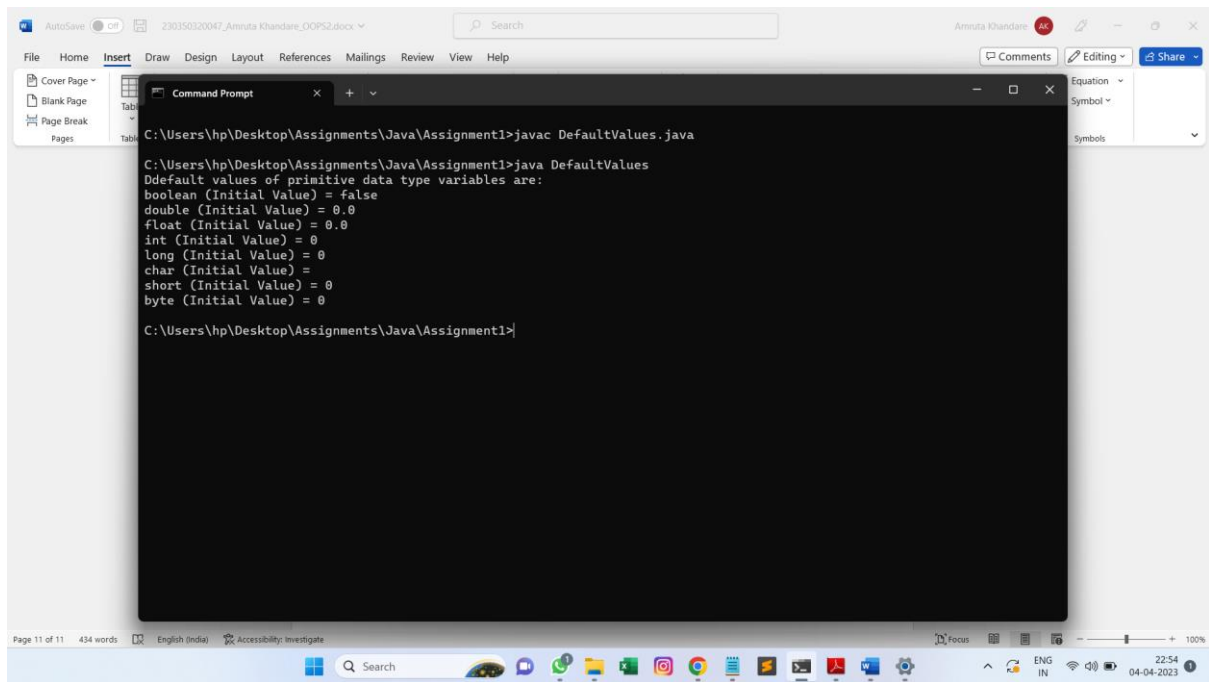
```
        System.out.println("char (Initial Value) = " + c);
```

```
        System.out.println("short (Initial Value) = " + s);
```

```
        System.out.println("byte (Initial Value) = " + t);
```

```
    }
```

```
}
```



Q10:

```
import java.util.Scanner;
```

```
class Swapping2{
```

```
    public static void main(String[] args){
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter Number1: ");
```

```
        int a = sc.nextInt();
```

```
        System.out.println("Enter Number1: ");
```

```
        int b = sc.nextInt();
```

```
        System.out.println("Before Swapping:" + "a = " + a + " b = " +b);
```

```
        a = a + b;
```

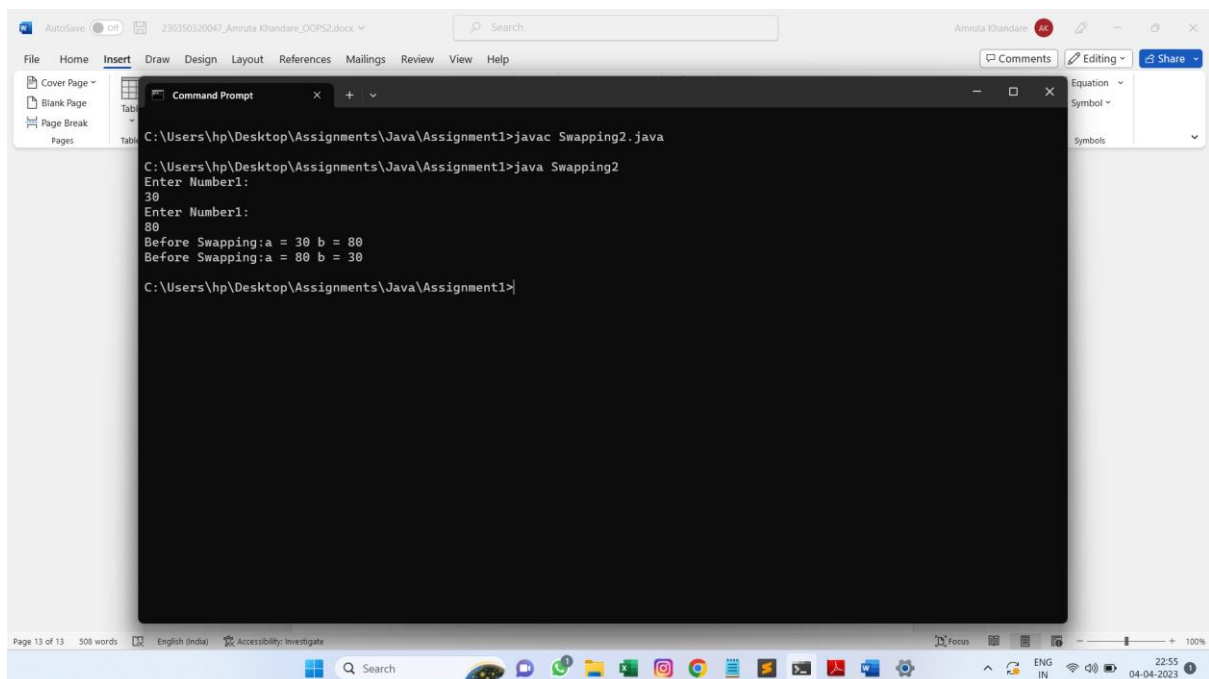
```
        b = a - b;
```

```
        a = a - b;
```

```
        System.out.println("Before Swapping:" + "a = " + a + " b = " +b);
```

```
    }
```

```
}
```



The screenshot shows a Microsoft Word document titled "230150120047_Amruta Khandare_OOPS2.docx" with a Command Prompt window overlaid. The Command Prompt displays the following text:

```
C:\Users\hp\Desktop\Assignments\Java\Assignment1>javac Swapping2.java
C:\Users\hp\Desktop\Assignments\Java\Assignment1>java Swapping2
Enter Number1:
30
Enter Number1:
80
Before Swapping:a = 30 b = 80
Before Swapping:a = 80 b = 30
C:\Users\hp\Desktop\Assignments\Java\Assignment1>
```

The Word document's ribbon shows the "Insert" tab, and the status bar at the bottom indicates "Page 13 of 13", "508 words", "English (India)", and "Accessibility: Investigate". The system tray at the bottom shows the date "04-04-2023" and time "22:55".

Q11:

```
import java.util.Scanner;
```

```
class Fibonacci{
```

```
    public static void main(String[] args){
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter value of N: ");
```

```
        int N = sc.nextInt();
```

```
        int i, a = 0, b = 1;
```

```
        int c = 0;
```

```
        for(i = 2;i<N;++i){
```

```
            c = a + b;
```

```
        System.out.println(c);
```

```
            a = b;
```

```
            b = c;
```

```
    }
```

```
}
```

```
}
```

