Q. Write a Program in Java to print table of given number.

```
Microsoft Windows [Version 10.0.19045.4651]
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D:\Shweta\Basic>javac Table.java

D:\Shweta\Basic>java Table.java

Enter a number: 5
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50

No =5
i = 11

D:\Shweta\Basic>__
```

Q. Write a Program in Java to print factorial of given number.

}

```
import java.lang.*;
import java.util.*;
class Factorial
    public int No;
    private int Fact;
    private Scanner scn = new Scanner(System.in);
    public Factorial()
      Fact = 1;
      System.out.print("\n Enter a Number : ");
      No = scn.nextInt();
      Find_Factorial();
    public Factorial(int Num)
      No = Num;
      Fact = 1;
      Find_Factorial();
    private void Find_Factorial()
      int Temp = No;
      while (Temp > 0)
        Fact *= Temp;
        Temp--;
      }
    }
    public void Display_Factorial()
      System.out.println("\n Factorial of Given Number " + No + " is = " + Fact + ".");
      System.out.print("\n Press Enter Key To Move Next Code...");
      scn.nextLine();
    }
public class Calculate_Factorial
  public static void main(String[] args)
      Factorial Obj1 = new Factorial();
```

```
Obj1.Display_Factorial();
   Factorial Obj2 = new Factorial(7);
   Obj2.Display_Factorial();
}
```

```
C:\Windows\System32\cmd.exe-java Calculate_Factorial
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac Calculate_Factorial.java

D:\Shweta\Basic>java Calculate_Factorial

Enter a Number : 5

Factorial of Given Number 5 is = 120.

Press Enter Key To Move Next Code...
Factorial of Given Number 7 is = 5040.

Press Enter Key To Move Next Code...
```

Q. Write a Program in Java to create console based calculator (Casestudy-1).

```
import java.lang.*;
import java.util.*;
public class Calculator
    public static void main(String[] args)
      int N1 = 0, N2 = 0, Res = 0, Choice = 0;
      Scanner S = new Scanner(System.in);
      while(true)
          System.out.print("\n========\n");
          System.out.print("\n ***** Calculator ***** \n");
          System.out.print("\n Choices : ");
          System.out.print("\n\t 1. Addition");
          System.out.print("\n\t 2. Subtraction");
System.out.print("\n\t 3. Multiplication");
          System.out.print("\n\t 4. Division");
          System.out.print("\n\t 5. Remainder");
          System.out.print("\n\t 6. Exit");
          System.out.print("\n========\n");
          System.out.print("\n Select Your Choice : ");
          Choice = S.nextInt();
          if((Choice > 0) && (Choice < 6))
            System.out.print("\n Enter 1st Number : ");
            N1 = S.nextInt();
            System.out.print("\n Enter 2nd Number : ");
            N2 = S.nextInt():
          switch(Choice)
            case 1:
                                        /// Add
                Res = N1 + N2;
                System.out.println("\n Addition of " + N1 + " & " + N2 + " is = " + Res + ".");
                S.next();
                break;
            case 2:
                                        /// Sub
                Res = N1 - N2;
                System.out.println("\n Subtraction of " + N1 + " & " + N2 + " is = " + Res + ".");
                break;
            case 3:
                                        /// Mult
                Res = N1 * N2;
                System.out.println("\n Multiplication of " + N1 + " & " + N2 + " is = " + Res +".");
```

```
break;
                                          /// Div
             case 4:
                 Res = N1 / N2;
                 System.out.println("\n Division of " + N1 + " & " + N2 + " is = " + Res + ".");
                 break;
             case 5:
                                          // Rem
                 Res = N1 \% N2;
                 System.out.println("\n Remainder of " + N1 + " & " + N2 + " is = " + Res + ".");
             case 6:
                 break;
             default:
                                          /// Invalid
                 System.out.println("\n Invalid Input!!!");
          }
          if(Choice == 6)
             break;
          }
      System.out.print("\n Thanks For Using this Calculator Service...\n ");
    }
}
```

```
C:\Windows\System32\cmd.exe - java Calculator
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac Calculator.java

D:\Shweta\Basic>java Calculator

========*****

***** Calculator *****

Choices:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Remainder
6. Exit

======*****

Select Your Choice: 1

Enter 1st Number: 30

Enter 2nd Number: 20

Addition of 30 & 20 is = 50.
```

```
Select Your Choice : 2
Enter 1st Number : 56
Enter 2nd Number : 36
Subtraction of 56 & 36 is = 20.
```

Select Your Choice : 3

Enter 1st Number : 46

Enter 2nd Number : 9

Multiplication of 46 & 9 is = 414.

Select Your Choice: 4

Enter 1st Number : 49

Enter 2nd Number : 7

Division of 49 & 7 is = 7.

Select Your Choice : 5

Enter 1st Number: 100

Enter 2nd Number: 25

Remainder of 100 & 25 is = 0.

Q. Write a Program in Java to demonstrate all type of constructors.

```
import java.lang.*;
   import java.util.*;
   class Circle
     private float Rad;
                                    // Private Characteristic or Data Member of Class Circle
     public float Area, Circum;
                                     // Public Characteristics or Data Members of Class Circle
     // Default Constructor
     public Circle()
         Rad = Area = Circum = 0.0f;
         System.out.println("\n Inside Default Constructor!!!");
       // Parameterized Constructor
       public Circle(float R)
         Rad = R;
         Area = Circum = 0.0f;
         System.out.println("\n Inside Parameterized Constructor!!!");
       // Copy Constructor
       public Circle(Circle Ref)
         this.Rad = Ref.Rad;
         this.Area = Ref.Area;
         this.Circum = Ref.Circum;
         System.out.println("\n Inside Copy Constructor!!!");
       // Accept Radius Member Function
       public void Accept_Radius()
         Scanner scanner = new Scanner(System.in);
         System.out.print("\n Enter Radius = ");
         this.Rad = scanner.nextFloat();
       // Calculate Area_Of_Circle Member Function
       public void Area_Of_Circle()
         Area = (float) (3.14 * Rad * Rad);
         System.out.println("\n Area of Circle Calculated by Function as => " + Area);
// Calculate Circumference_Of_Circle Member Function
public void Circumference_Of_Circle()
```

```
Circum = (float) (2 * 3.14 * Rad);
System.out.println("\n Circumference of Circle Calculated by Function as => " this.Circum);
public class Circle_Client
  public static void main(String[] args)
    Circle Obj1 = new Circle();
    Circle Obj2 = new Circle(7.5f);
    Obj1.Accept_Radius();
    Obj1.Area_Of_Circle();
    Obj1.Circumference_Of_Circle();
    Obj2.Area_Of_Circle();
    Obj2.Circumference_Of_Circle();
    Circle Obj3 = new Circle(Obj1);
    Obj3.Accept_Radius();
    System.out.println("\n Area Of Circle for Copied Object = " + Obj3.Area);
    System.out.println("\n Circumference Of Circle for Copied Object = " + Obj3.Circum);
}
```

```
D:\Shweta\Basic>javac Circle_Client.java

D:\Shweta\Basic>javac Circle_Client

Inside Default Constructor!!!

Inside Parameterized Constructor!!!

Enter Radius = 5

Area of Circle Calculated by Function as => 78.5

Circumference of Circle Calculated by Function as => 31.4

Area of Circle Calculated by Function as => 176.625

Circumference of Circle Calculated by Function as => 47.1

Inside Copy Constructor!!!

Enter Radius = 2

Area Of Circle for Copied Object = 78.5

Circumference Of Circle for Copied Object = 31.4
```

Q1. Write a Program in Java to find out maximum element from an array.

OUTPUT:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac MaxElementInArray.java

D:\Shweta\Basic>java MaxElementInArray

The maximum element in the array is : 8

D:\Shweta\Basic>_
```

Q.Write a Program in java to Addition of Matrix.

```
C:\Windows\System32\cmd.exe
```

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac MatrixAddition.java

D:\Shweta\Basic>java MatrixAddition

2 6 8

4 8 6

4 6 9
```

Q. Write a Program in Java to demonstrate arraylist.

OUTPUT:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac ArrayListExample.java

D:\Shweta\Basic>java ArrayListExample
Fruits in the ArrayList:
apple
banana
orange
Fruits after removing banana:
apple
orange

D:\Shweta\Basic>
```

Q. Write a Program in Java for implementation of string functions .

```
import java.lang.*;
import java.util.*;
public class StringExample
  public static void main(String[] args)
    String str = "Hello, World!";
    System.out.println("Length: " + str.length()); // Print length of string
   // Convert to uppercase and lowercase
   System.out.println("Uppercase: " + str.toUpperCase());
   System.out.println("Lowercase: " + str.toLowerCase());
    String newStr = str.replace("World", "Java"); // Replace substring
    System.out.println("Replaced: " + newStr);
    // Check if string contains a substring
    System.out.println("Contains 'World': " + str.contains("World"));
    String[] parts = str.split(", ");
                                     // Split string
    for (String part : parts)
    {
      System.out.println("Part: " + part);
    }
 }
```

```
C:\Windows\System32\cmd.exe
```

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac StringExample.java

D:\Shweta\Basic>java StringExample
Length: 13
Uppercase: HELLO, WORLD!
Lowercase: hello, world!
Replaced: Hello, Java!
Contains 'World': true
Part: Hello
Part: World!

D:\Shweta\Basic>
```

Q1. Write a Program in Java to implement Student admission system with use of arraylist. (Casestudy-2)

```
import java.lang.*;
import java.util.*;
class Student
  private int Roll_No;
  private String Name;
  private int Phy, Chem, Maths, Tot;
  private float Per;
  private String Course;
  public Student(int RNo, String Nm, int P, int C, int M, String Crs)
    this.Roll_No = RNo;
    this.Name = Nm;
    this.Phy = P;
    this.Chem = C;
    this.Maths = M;
    this.Course = Crs;
    this.Calulate();
  private void Calulate()
    this.Tot = this.Phy + this.Chem + this.Maths;
                                                   this.Per = ((float)this.Tot)/3;
  @Override
    public String toString()
     return "\n Roll Number: " + Roll No + "\n Student Name: " + Name + ". \n Marks => Physics = "
     Phy + ", Chemistry = " + Chem + ", Mathematics = " + Maths + ". \n\n Total Marks = " + Tot + ".\n
     Percentage = " + Per + ".\n Course : " + Course + ".\n====######====\n";
public class StudentAdmissionSystem
  private static int RNo = 101;
  private ArrayList<Student> StudentsList;
  private Scanner scanner;
  public StudentAdmissionSystem()
    StudentsList = new ArrayList<>();
    scanner = new Scanner(System.in);
 }
```

```
public void AddNewStudent()
    Scanner scn = new Scanner(System.in);
    System.out.print("\n Enter Student Details for Roll Number : " + RNo);
    System.out.print("\n\n Enter Student Name : ");
    String SName = scanner.nextLine();
    System.out.print("\n Enter Student Marks : ");
    System.out.print("\n Physics : ");
    int P = Integer.parseInt(scanner.nextLine());
    System.out.print("\n Chemistry : ");
    int C = Integer.parseInt(scanner.nextLine());
    System.out.print("\n Mathematics : ");
    int M = Integer.parseInt(scanner.nextLine());
    System.out.print("\n Enter Course Name : ");
    String CourseNm = scanner.nextLine();
    Student NewStud = new Student(RNo, SName, P, C, M, CourseNm);
    StudentsList.add(NewStud):
    System.out.println("\n Student Details Added Successfully!\n-----\n");
    RNo++;
    System.out.print("\n Press Enter Key To Go To Main Menu ...");
    scn.nextLine();
 }
  public void DisplayAllStudents()
    Scanner scn = new Scanner(System.in);
    if (StudentsList.isEmpty())
      System.out.println("\n No Student Added Yet.");
    }
    else
      System.out.println("\n List of Students => \n");
      for (Student Std: StudentsList)
        System.out.println(Std);
      System.out.print("\n Press Enter Key To Go To Main Menu ...");
      scn.nextLine();
public void menu()
      while (true)
        System.out.println("\n **_** Student Admission System **_**\n");
        System.out.println(" Choices => \n");
System.out.println(" 1. Add New Student");
System.out.println(" 2. Display Students List");
        System.out.println(" 3. Exit");
        System.out.print("\n Enter Choice : ");
```

```
int choice = Integer.parseInt(scanner.nextLine());
        switch (choice)
          case 1:
                  AddNewStudent();
                  break;
          case 2:
                  DisplayAllStudents();
                  break;
          case 3:
                  System.out.println("\n Exiting the system.<*Thanks*>\n");
          default:
                  System.out.println("\n Invalid option, please try again.\n");
      }
   }
    public static void main(String[] args)
        StudentAdmissionSystem system = new StudentAdmissionSystem();
        system.menu();
    }
}
```

```
C:\Windows\System32\cmd.exe-java StudentAdmissionSystem
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac StudentAdmissionSystem.java

D:\Shweta\Basic>java StudentAdmissionSystem

**_*** Student Admission System **_**

Choices =>

1. Add New Student
2. Display Students List
3. Exit

Enter Choice: 1

Enter Student Details for Roll Number: 101

Enter Student Name: Mayuresh Patil

Enter Student Marks:
Physics: 88

Chemistry: 75

Mathematics: 89

Enter Course Name: MCA

Student Details Added Successfully!
```

```
Press Enter Key To Go To Main Menu ...

**_*** Student Admission System **_***

Choices =>

1. Add New Student
2. Display Students List
3. Exit

Enter Choice : 2

List of Students =>

Roll Number : 101
Student Name : Mayuresh Patil.
Marks => Physics = 88, Chemistry = 75, Mathematics = 89.

Total Marks = 252.
Percentage = 84.0.
Course : MCA.
```

```
**_** Student Admission System **_**
Choices =>

1. Add New Student
2. Display Students List
3. Exit
Enter Choice : 3
Exiting the system.<*Thanks*>
```

Q. Write a Program in Java to demonstrate use of exception handeling.

```
import java.lang.*;
import java.util.*;
// Custom Exception for Insufficient Funds
class InsufficientFundsException extends Exception
 public InsufficientFundsException(String message)
    super(message);
}
// Custom Exception for Negative Amount
class NegativeAmountException extends Exception
 public NegativeAmountException(String message)
    super(message);
// Bank Account class
class BankAccount
 private double balance;
  public BankAccount(double initialBalance)
    if (initialBalance < 0)
      throw new IllegalArgumentException("Initial balance cannot be negative.");
    this.balance = initialBalance;
 }
  public void deposit(double amount) throws NegativeAmountException
    if (amount < 0)
      throw new NegativeAmountException("Deposit amount cannot be negative.");
    balance += amount;
    System.out.println("\n Deposited: " + amount);
 }
```

```
public void withdraw(double amount) throws InsufficientFundsException,
NegativeAmountException
    if (amount < 0)
      throw new NegativeAmountException("Withdrawal amount cannot be negative.");
    if (amount > balance)
       throw new InsufficientFundsException("Insufficient funds for this withdrawal.");
       balance -= amount;
       System.out.println("\n Withdrew: " + amount);
  public double getBalance()
    return balance;
// Main class
public class BankApp
       public static void main(String[] args)
       {
              BankAccount account = new BankAccount(1000);
                try
               {
                       account.deposit(500);
                       account.withdraw(200);
                       account.withdraw(1500); // This will cause InsufficientFundsException
               catch (InsufficientFundsException | NegativeAmountException e)
                      System.out.println("\n Exception: " + e.getMessage());
               }
               try
               {
                      account.deposit(-100); // This will cause NegativeAmountException
               catch (NegativeAmountException e)
                      System.out.println("Exception: " + e.getMessage());
               }
              System.out.println("\n Current Balance : " + account.getBalance());
       }
}
```

C:\Windows\System32\cmd.exe Microsoft Windows [Version 10.0.19045.4651] (c) Microsoft Corporation. All rights reserved. D:\Shweta\Basic>javac BankApp.java D:\Shweta\Basic>java BankApp Deposited: 500.0 Withdrew: 200.0 Exception: Insufficient funds for this withdrawal. Exception: Deposit amount cannot be negative. Current Balance: 1300.0 D:\Shweta\Basic>

Q.Write a program in java to demonstrate Multilevel Inheritance.

```
class Shape
  public void display()
    System.out.println("Inside display");
class Rectangle extends Shape
  public void area()
    System.out.println("Inside area");
 class Cube extends Rectangle
        public void volume()
          System.out.println("Inside volume");
  public class Multilevel
     public static void main(String[] arguments)
        Cube cube = new Cube();
        cube.display();
        cube.area();
        cube.volume();
   }
```

```
D:\Shweta\Basic>javac Multilevel.java
D:\Shweta\Basic>java Multilevel
Inside display
Inside area
Inside volume
```

Q. Write a Program in Java to demonstrate Hierarchical Inheritance.

```
import java.lang.*;
import java.util.*;
// Superclass
class Animal
        void eat()
                System.out.println("This animal eats food.");
}
// Subclass 1
class Dog extends Animal
        void bark()
        {
                System.out.println("The dog barks.");
}
// Subclass 2
class Cat extends Animal
        void meow()
                System.out.println("The cat meows.");
        }
}
public class Animals_Test
        public static void main(String[] args)
                Dog dog = new Dog();
                Cat cat = new Cat();
                 // Calling methods from the superclass
                               // Output: This animal eats food.
                 dog.eat();
                 cat.eat();
                                 // Output: This animal eats food.
              // Calling methods from the subclasses
                 dog.bark();
                                         // Output: The dog barks.
                cat.meow();
                                         // Output: The cat meows.
        }
}
```

```
Microsoft Windows [Version 10.0.19045.4651]
(c) Microsoft Corporation. All rights reserved.

D:\Shweta\Basic>javac Animals_Test.java

D:\Shweta\Basic>java Animals_Test
This animal eats food.
This animal eats food.
The dog barks.
The cat meows.

D:\Shweta\Basic>
```

Q. Write a Program in Java to demonstrate use of interface.

```
import java.lang.*;
import java.util.*;
import java.io.*;
interface Vehicle
        // All Abstract Methods.
        void changeGear(int a);
        void speedUp(int a);
        void applyBrakes(int a);
}
class Bicycle implements Vehicle
{
        int speed;
        int gear;
        // to change gear
        @Override
        public void changeGear(int newGear)
               gear = newGear;
       }
        // to increase speed
        @Override
        public void speedUp(int increment)
               speed = speed + increment;
       }
        // to decrease speed
        @Override
        public void applyBrakes(int decrement)
               speed = speed - decrement;
        public void printStates()
               System.out.println("speed: " + speed + " gear: " + gear);
}
class Bike implements Vehicle
        int speed;
        int gear:
        // to change gear
        @Override
```

```
public void changeGear(int newGear)
               gear = newGear;
       }
       // to increase speed
       @Override
       public void speedUp(int increment)
               speed = speed + increment;
       // to decrease speed
       @Override
       public void applyBrakes(int decrement)
               speed = speed - decrement;
       }
       public void printStates()
               System.out.println("speed: " + speed + " gear: " + gear);
       }
}
class Interface_Client
{
       public static void main (String[] args)
               // Creating an Object of Bicycle
               Bicycle bicycle = new Bicycle();
               bicycle.changeGear(2);
               bicycle.speedUp(3);
               bicycle.applyBrakes(1);
               System.out.println("\n Bicycle present state : ");
               bicycle.printStates();
               // Creating Object of the bike.
               Bike bike = new Bike();
               bike.changeGear(1);
               bike.speedUp(4);
               bike.applyBrakes(3);
               System.out.println("\n Bike present state : ");
               bike.printStates();
       }
}
               OUTPUT:
                          D:\Shweta\Basic>javac Interface_Client.java
                          D:\Shweta\Basic>java Interface_Client
                           Bicycle present state :
                           speed: 2 gear: 2
                           Bike present state :
                           speed: 1 gear: 1
```

Q. Write a Program in Java to Designing and using Thread class.

```
A. Using the Thread Class
    // Custom Thread class
    class MyThread extends Thread
      @Override
      public void run()
        for (int i = 1; i \le 5; i++)
          System.out.println("Thread: " + i);
          try
            Thread.sleep(500); // Sleep for 500 milliseconds
           catch (InterruptedException e)
             System.out.println("Thread interrupted: " + e.getMessage());
        }
      }
    // Main class
    public class ThreadExample
       public static void main(String[] args)
            MyThread thread = new MyThread(); // Create a new thread
            thread.start(); // Start the thread
            // Main thread printing numbers
            for (int i = 1; i \le 5; i++)
                System.out.println("Main: " + i);
                try
                {
                        Thread.sleep(300); // Sleep for 300 milliseconds
                catch (InterruptedException e)
                    System.out.println("Main thread interrupted: " + e.getMessage());
            }
        }
```

```
D:\Shweta\Basic>javac ThreadExample.java
D:\Shweta\Basic>java ThreadExample
Main: 1
Thread: 1
Main: 2
Thread: 2
Main: 3
Main: 4
Thread: 3
Main: 5
Thread: 4
Thread: 5
```

```
B. Using the Runnable Interface // Custom Runnable class
```

```
class MyRunnable implements Runnable
 @Override
 public void run()
   for (int i = 1; i \le 5; i++)
       System.out.println("Runnable: " + i);
        try
        {
           Thread.sleep(500);
                                   // Sleep for 500 milliseconds
        catch (InterruptedException e)
           System.out.println("Runnable interrupted:" + e.getMessage());
    }
// Main class
public class RunnableExample
 public static void main(String[] args)
   MyRunnable myRunnable = new MyRunnable(); // Create a new Runnable Thread
   thread = new Thread(myRunnable); // Create a thread using Runnable
   thread.start(); // Start the thread
   // Main thread printing numbers
   for (int i = 1; i \le 5; i++)
           System.out.println("Main: " + i);
            try
            {
                   Thread.sleep(300); // Sleep for 300 milliseconds
            }
           catch (InterruptedException e)
                   System.out.println("Main thread interrupted: " + e.getMessage());
           }
     }
  }
OUTPUT:
```

```
C.\Windows\System3\cmd.exe
D:\Shweta\Basic>javac RunnableExample.java
D:\Shweta\Basic>java RunnableExample
Runnable: 1
Main: 1
Main: 2
Runnable: 2
Main: 3
Main: 4
Runnable: 3
Main: 5
Runnable: 4
Runnable: 5
```

Q1. Write a Program in Java to Using readers and writers to write data into Files.

A. Writing Data to a File

```
import java.io.BufferedWriter;
         import java.io.FileWriter;
         import java.io.IOException;
         public class FileWrite
                public static void main(String[] args)
                         String filename = "example.txt";
                         // Data to be written to the file
                         String[] data = {
                                                  "Hello, World!",
                                                  "Welcome to Java File I/O.",
                                                  "This is a simple example.",
                                                  "Goodbye!"
                                          };
         try (BufferedWriter writer = new BufferedWriter(new FileWriter(filename)))
                 for (String line : data)
                  writer.write(line);
                  writer.newLine(); // Write a new line after each entry
                   System.out.println("Data written to the file successfully.");
           catch (IOException e)
               System.out.println("An error occurred while writing to the file: " + e.getMessage());
       }
}
```

OUTPUT:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.4651]
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D:\Shweta\Basic>javac FileWrite.java

D:\Shweta\Basic>java FileWrite

Data written to the file successfully.

D:\Shweta\Basic>_
```

B. Reading Data from a File

OUTPUT:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 10.0.19045.4651]
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D:\Shweta\Basic>javac FileRead.java

D:\Shweta\Basic>java FileRead

Hello, World!

Welcome to Java File I/O.

This is a simple example.

Goodbye!
```