PRACTICAL 9:

AIM: Input-Output

Program 1:
Write program to copy content of one file to another file.

Source Code:

Refer main program.

Program 2:
Write a program to merge the content of files.

Source Code:

Refer main program.

Program 3:
Write a program to write student details in a file.

Source Code:

```
package lab9;
 import java.util.*;
 import java.util.*;
 import java.io.*;
 //import lab9.Student;
 public class Stu implements Serializable
{
   public int en_no;
   public String name;
   public Stu()
   {
   }
   public Stu(int en_no,String name)
   {
      this.en_no=en_no;
            this.name=name;
   }

   public void setEn_no(int n )
   {

   en_no=n;
  }
  public void setName(String na )
```

```
  {
   name=na;
  }
  public int getEn_no()
  {
  return en_no;
  }
  public String getName()
  {
  return name;
  }
  public String toString()
  {
  return getEn_no()+" "+getName();
  }
 }
```

Main Program:

```
package main;
import lab9.*;
import java.io.*;
import java.util.Scanner;
public class Main9
{
	public static void filecopy()
	{
		FileInputStream ob=null;
		FileOutputStream obx=null;
		try
		{
			ob= new FileInputStream("abc.txt");
			obx=new FileOutputStream("xyz.txt");

			byte[] buffer=new byte[1024];
			int i;
			while((i=ob.read(buffer))!=-1)
			{
				obx.write(buffer,0,i);
				//System.out.println((char)i);
				//i=ob.read();
			}
		}
		catch(Exception e)
		{
			System.out.println("\nIOException");
		}
		finally{
			try{
```

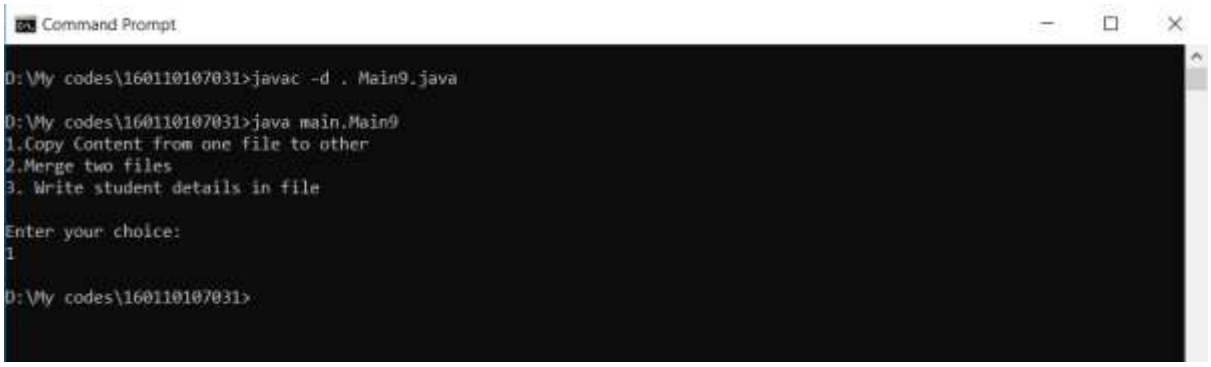
```
                        ob.close();
                        obx.close();
                        }
                        catch(Exception e)
                        {
                                System.out.println("\nIOException");
                        }
                }
        }
        public static void mergefiles()
        {
                FileInputStream ob1=null;
                FileInputStream ob2=null;
                FileOutputStream obj=null;
                try{
                        ob1= new FileInputStream("abc.txt");
                        ob2= new FileInputStream("xyz.txt");
                        obj=new FileOutputStream("final.txt");

                        byte[] buffer=new byte[1024];
                        int i;
                        while((i=ob1.read(buffer))!=-1)
                        {
                                obj.write(buffer,0,i);
                        }
                        while((i=ob2.read(buffer))!=-1)
                        {
                                obj.write(buffer,0,i);
                        }
                }
                catch(Exception e)
                {
                        System.out.println("\nIOException");
                }
                finally{
                        try{
                                ob1.close();
                                ob2.close();
                                obj.close();
                                }
                                catch(Exception e)
                                {
                                        System.out.println("\nIOException");
                                }
                        }
}
        public static void Studentmain()
        {
                Stu S1 = new Stu();
                  FileOutputStream fout=null;
```

```
                ObjectOutputStream out=null;
                S1.setEn_no(123);
                S1.setName("neha");
                System.out.println(S1.en_no+" "+S1.name);
               try
               {
               fout=new FileOutputStream("student.txt");
               out=new ObjectOutputStream(fout);
               out.writeObject(S1.toString());
               System.out.print("objects successfully written");
               }
               catch(Exception e)
               {
                 System.out.print(e);
               }
               finally
               {
               try
               {
                 fout.close();
                }
                catch(Exception e)
                {
                 System.out.println("exception occured");
          }
               }
     }
     public static void main(String a[])
     {
          int ch;
          Scanner o=new Scanner(System.in);
          System.out.println("1.Copy Content from one file to other\n2.Merge two
files\n3. Write student details in file\n");
          System.out.println("Enter your choice: ");
   ch = o.nextInt();
          switch(ch)
          {
               case 1:{
                    filecopy();
               break;
               }
               case 2:{
                    mergefiles();
               break;
               }
               case 3:{
                    Studentmain();
               break;
               }
               default:{
```

```
                                System.out.println("\nEnter valid choice");
                        break;
                        }
                }
        }
}
```

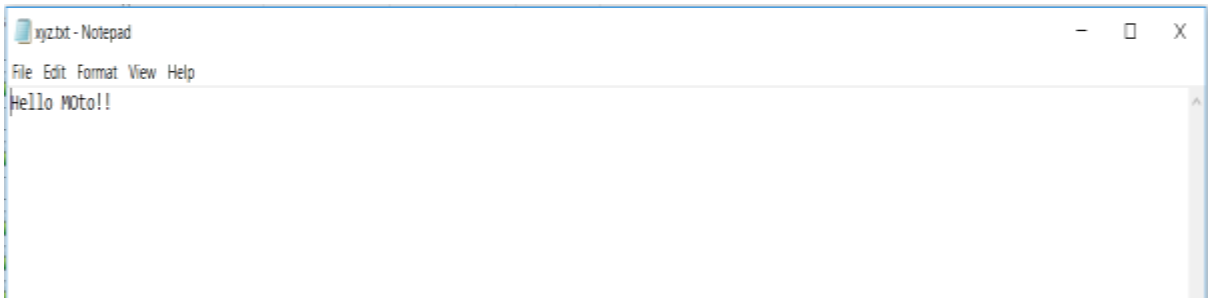
Output:

For program 1:

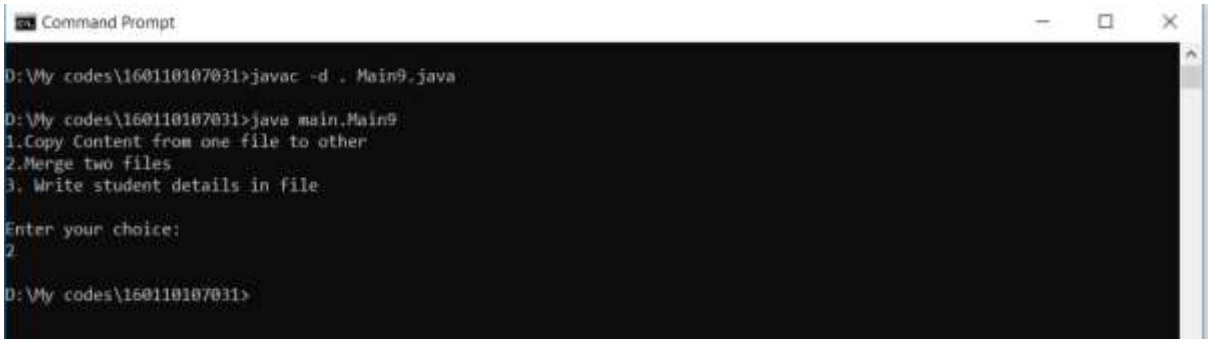


Abc.txt:

Xyz.txt:

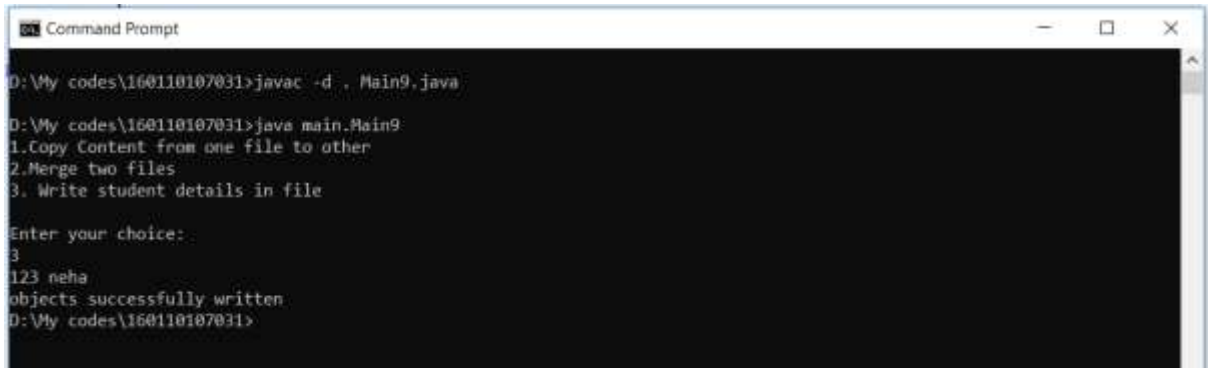


For program 2:



Abc.txt and xyz.txt are same as above
Final.txt:

For Program 3:



Student.txt(the file containing the student's details):