KIET Group of Institutions, Ghaziabad
Department of Computer Applications
(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)
Object Oriented Programming Lab

KCA 251 : Session 2020-21

Program : Write a java program for read/ write operations into files using byte stream classes.

```java
Code : import java.io.FileOutputStream;
import java.io.FileInputStream;
import java.io.IOException;
public class ByteStreamDemo {
    public static void main(String[] args) throws IOException {
        FileOutputStream fout = new FileOutputStream("Mad.txt");
        String s = "madhur chandak";
        byte[] data = s.getBytes();
        fout.write(data);
        System.out.println("saved successfully");
        fout.close();
        FileInputStream fin = new FileInputStream("Mad.txt");
        int i=0;
        while((i=fin.read())!=-1) {
            System.out.print((char)i);

        }
        fin.close();

    }

}
```

Output :

```
saved successfully
madhur chandak
```

Program: Write a java program for read/ write operations into files using character stream classes.

```java
Code : import java.io.BufferedReader;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
public class CharacterStreamDemo1 {
```

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```java
public static void main(String[] args) throws IOException{
    FileWriter fw = new FileWriter("madhur.txt");
    String s = "madhur maheshwari";
    fw.write(s);
    fw.close();
    System.out.println("Data Saved");
    FileReader fr = new FileReader("demo1.txt");
    BufferedReader br = new BufferedReader(fr);
    String data;
    while((data = br.readLine())!=null) {
    System.out.println(data);
    }
    br.close();
    fr.close();
    // TODO Auto-generated method stub

}

}
```

Output:

```
Data Saved
madhur maheshwari s/o mr. neeraj kumar maheshwari
```

Program : Write a java program for copying data from one file into another file.

Code:
```java
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.FileWriter;
public class CharacterStreamsDemo {
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        try{
            FileWriter fw = new FileWriter("demo1.txt");
            String s = "madhur maheshwari s/o mr. neeraj kumar
maheshwari";
            fw.write(s);
            fw.close();
            System.out.println("Data Saved");
            //Data reading
            FileReader fr = new FileReader("demo1.txt");
            BufferedReader br = new BufferedReader(fr);
```

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```java
            String data;
            while((data = br.readLine())!=null) {
                    System.out.println(data);
                    FileWriter fw1 = new FileWriter("demo.txt");
                    fw1.write(data);
                    fw1.close();
            }
            br.close();
            fr.close();
        }
        catch(Exception e) {

        }
    }
}
```

Output:

```
Data Saved
madhur maheshwari s/o mr. neeraj kumar maheshwari
```

Program: Write a Java program to create a text file in the path c:\Java\abc.txt and check whether that file exists or not. Using the command exists(), isDirectory(), isFile(), getName() and getAbsolutePath().

Code:
```java
import java.io.File;
public class FileDir {

    public static void main(String[] args) {
            String fname = "C:\\Users\\DELL\\Desktop\\java pro";
            File f= new File(fname);
            System.out.println("File name :"+f.getName());
            System.out.println("Absolute path:"+f.getAbsolutePath());
            System.out.println("exists :"+f.exists());
            if(f.exists()) {
                    System.out.println("is a file"+f.isFile());
                    System.out.println("is a directory "+f.isDirectory());
            }
            // TODO Auto-generated method stub

    }

}
```

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Output :

```
File name :java pro
Absolute path:C:\Users\DELL\
exists :true
is a file false
is a directory true
```