https://github.com/PatelVraj10/java_practical_file_5

```
/*By 21CE105 Vraj Patel
Question: WAP to show how to create a file with different mode and
methods of File class to find
path, directory etc.
GITHUB LINK : https://github.com/PatelVraj10/java practical file 5 */
import java.util.*;
import java.io.*;
class P5P1
   public static void main(String... args)
        //Creating the file
        try
        {
            File myObj=new File("Part5Practical1.txt");
            if(myObj.createNewFile())
                System.out.println("File created with name
"+myObj.getName());
            else
                System.out.println("File already exists");
        catch(Exception e)
            System.out.println(e.getMessage());
        //Opening in writing mode
        try
            FileWriter myObj=new FileWriter("Part5Practical1.txt");
            myObj.write("This is Part 5 Practical 5\nCreated by 21CE105
Vraj Patel");
```

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myObj.close();
catch(Exception e)
    System.out.println(e.getMessage());
//Reading from the file
try
{
    File myObj=new File("Part5Practical1.txt");
    Scanner myReader = new Scanner(myObj);
    while (myReader.hasNextLine())
        String data=myReader.nextLine();
        System.out.println(data);
    }
}
catch(Exception e)
{
    System.out.println(e.getMessage());
}
//Getting path of File and directory
try
{
    File myObj=new File("Part5Practical1.txt");
    String path = myObj.getAbsolutePath();
    String directory=new File(path).getParent();
    System.out.println("Path of file : "+path);
    System.out.println("Directory : "+directory);
}
catch(Exception e)
    System.out.println(e.getMessage());
```

```
/*By 21CE105 Vraj Patel
Question : When to use Character Stream over Byte Stream? When to use Byte
Stream over Character
Stream? Give example.
Ans:Byte streams are used to perform input and output of 8-bit bytes.
   Byte streams are useful when we want to read/write binary data.
   Character stream is used to perform input and output operations of 16-
bit Unicode.
    Character streams are used to read/write characters.
GITHUB LINK : https://github.com/PatelVraj10/java practical file 5 */
import java.io.*;
// Main class
public class P5P2
   // Main driver method
   public static void main(String[] args)
        throws IOException
    {
        // Initially assigning null as we have not read
        // anything
        FileReader sourceStream = null;
        // Try block to check for exceptions
        try {
            // Reading from file
            sourceStream = new FileReader(
                "Part5Practical2.txt");
            // Reading sourcefile and writing content to
            // target file character by character.
            int temp;
            // If there is content inside file
            // than read
```

```
/*By 21CE105 Vraj Patel
Question: Write a program to transfer data from one file to another file
so that if the destination
file does not exist, it is created
GITHUB LINK : https://github.com/PatelVraj10/java_practical_file_5 */
import java.io.*;
import java.util.*;
class P5P3
   public static void copyContent(File a, File b)
        throws Exception
        FileInputStream in = new FileInputStream(a);
        FileOutputStream out = new FileOutputStream(b);
        try {
            int n;
            // read() function to read the
            // byte of data
            while ((n = in.read()) != -1) {
                // write() function to write
                // the byte of data
                out.write(n);
            }
        }
        finally {
            if (in != null) {
                // close() function to close the
                // stream
                in.close();
            // close() function to close
```

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// the stream
           if (out != null) {
               out.close();
       System.out.println("File Copied");
   }
   public static void main(String[] args) throws Exception
       Scanner sc = new Scanner(System.in);
       // get the source file name
       System.out.println(
           "Enter the source filename from where you have to read/copy
:");
       String a = sc.nextLine();
       // source file
       File x = new File(a);
       // get the destination file name
       System.out.println(
            "Enter the destination filename where you have to write/paste
:");
       String b = sc.nextLine();
       // destination file
       File y = new File(b);
       // method called to copy the
       // contents from x to y
       copyContent(x, y);
```

```
/*By 21CE105 Vraj Patel
Question : WAP to show use of character and byte stream.
GITHUB LINK : https://github.com/PatelVraj10/java practical file 5 */
import java.io.*;
class P5P4
   public static void main(String args[]) throws IOException
        FileInputStream in = null;
        FileOutputStream out = null;
        try
            in = new FileInputStream("Part5Practical4Input.txt");
            out = new FileOutputStream("Part5Practical4Output.txt");
            int c;
            while ((c = in.read()) != -1)
                out.write(c);
            }
        finally
            if (in != null)
                in.close();
            if (out != null)
                out.close();
```

```
/*By 21CE105 Vraj Patel
Question : Write a program to enter any 15 numbers from the user and store
only even numbers in a file
named "Even.txt". And display the contents of this file on the console.
GITHUB LINK: https://github.com/PatelVraj10/java practical file 5 */
import java.io.*;
import java.util.*;
class P5P5
    public static void main(String... args) throws Exception
    {
        Scanner sc=new Scanner(System.in);
        int[] arr=new int[15];
        for(int i=0;i<15;i++)</pre>
        {
            System.out.println("Enter the "+(i+1)+" number : ");
            arr[i]=sc.nextInt();
        //Buffered Writer
        FileWriter writer=new FileWriter("Part5Practical5Even.txt");
        BufferedWriter buffer= new BufferedWriter(writer);
        for(int i=0;i<15;i++)
            if(arr[i]%2==0)
                buffer.write(arr[i]+" ");
        buffer.close();
```

```
//Buffered Reader
FileReader fr=new FileReader("Part5Practical5Even.txt");
BufferedReader br=new BufferedReader(fr);
int i;
System.out.println("Reading the file : ");
while((i=br.read())!=-1)
{
    System.out.print((char)i);
}
br.close();
fr.close();
}
```

```
/*By 21CE105 Vraj Patel
Question: WAP to demonstrate methods of wrapper class
GITHUB LINK : https://github.com/PatelVraj10/java practical file 5 */
class P5P6
   public static void main(String args[])
        byte b=10;
        short s=20;
        int i=30;
        long 1=40;
        float f=50.0F;
        double d=60.0D;
        char c='a';
        boolean b2=true;
        //Autoboxing: Converting primitives into objects
        Byte byteobj=b;
        Short shortobj=s;
        Integer intobj=i;
        Long longobj=1;
        Float floatobj=f;
        Double doubleobj=d;
        Character charobj=c;
        Boolean boolobj=b2;
        //Printing objects
        System.out.println("---Printing object values---");
        System.out.println("Byte object: "+byteobj);
        System.out.println("Short object: "+shortobj);
        System.out.println("Integer object: "+intobj);
        System.out.println("Long object: "+longobj);
        System.out.println("Float object: "+floatobj);
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System.out.println("Double object: "+doubleobj);
System.out.println("Character object: "+charobj);
System.out.println("Boolean object: "+boolobj);
//Unboxing: Converting Objects to Primitives
byte bytevalue=byteobj;
short shortvalue=shortobj;
int intvalue=intobj;
long longvalue=longobj;
float floatvalue=floatobj;
double doublevalue=doubleobj;
char charvalue=charobj;
boolean boolvalue=boolobj;
//Printing primitives
System.out.println("---Printing primitive values---");
System.out.println("byte value: "+bytevalue);
System.out.println("short value: "+shortvalue);
System.out.println("int value: "+intvalue);
System.out.println("long value: "+longvalue);
System.out.println("float value: "+floatvalue);
System.out.println("double value: "+doublevalue);
System.out.println("char value: "+charvalue);
System.out.println("boolean value: "+boolvalue);
```