Unit-8 QB Programs

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/* QB310 Write a JAVA program to read student.txt file and display the
content.*/
//import java.io.*

class QB310 {
   public static void main(String[] args) throws IOException
   {
      BufferedWriter bw = new BufferedWriter(new FileWriter("student.txt"));
      bw.write("Name:Amit");
      bw.newLine();
      bw.write("Branch:CE");
      bw.newLine();
      bw.write("Roll No:45");
      bw.newLine();
      bw.flush();
      bw.close();
      BufferedReader br = new BufferedReader(new FileReader("student.txt"));
      System.out.println("The content of file student.txt:");
      String line= br.readLine();
      while(line!=null)
      {
      System.out.println(line);
      line= br.readLine();
      }
      br.close();
   }
}
/*-----------------------------------------------------------------------------------------------------------------------
- */
/* QB311 Write a program to read the content of a file into a character
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array and write it into another file. Get names of the files from
command line. */
//import java.io.*

 class QB311 {
    public static void main(String[] args) throws IOException {
        if (args.length != 2) {
            System.out.println("Enter valid source and destination file names");
            return;
        }
    String sourceFile = args[0];
    String destinationFile = args[1];
    FileWriter fw1 = new FileWriter(sourceFile);
    fw1.write("This is the source file");
    fw1.flush();
    fw1.close();
    FileWriter fw2 = new FileWriter(destinationFile);
    File f=new File("sourceFile.txt");
    FileReader fr=new FileReader(f);
    char[] ch=new char[(int)f.length()];
    fr.read(ch);

    for(char ch1: ch)
    {
    System.out.print(ch1);
    fw2.write(ch1);
    }
    fr.close();
    fw2.close();
    }
    }
```

```
/*-------------------------------------------------------------------------------------------------------------------- */
/* QB312 Write a java program to search the file named the word entered
as a filename from command line; if it exists in the system then
program should print the content of a file on console. */

//import java.io.*

 class QB312 {
   public static void main(String[] args) throws IOException{
      if (args.length != 1) {
         System.out.println("Enter a valid file name you want to search");
         return;
      }
      String fileName = args[0];
      File file = new File(fileName);
      if (file.exists()) {
      FileReader fr = new FileReader(file);
      BufferedReader br = new BufferedReader(fr);
      String line;
      System.out.println("Content of " + fileName + ":");
      while ((line = br.readLine()) != null) {
            System.out.println(line);
         }
      }
      else
      {
      System.out.println("File not found: " + fileName);


      }
      }
   }
```

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   /*-------------------------------------------------------------------------------------------------------------------------------
- */
/* QB313 Write a java program that read employee details and store into
emp.txt text file using file handling.*/
class QB313 {
   public static void main(String[] args) throws IOException {
        Scanner scanner = new Scanner(System.in);
        BufferedWriter bw = new BufferedWriter(new FileWriter("emp.txt"));
        System.out.println("Enter the number of employees: ");
        int numEmployees = scanner.nextInt();
        scanner.nextLine(); // Consume the remaining newline character
        for (int i = 1; i <= numEmployees; i++) {
           System.out.println("Enter details for Employee " + i + ":");
           System.out.print("Name: ");
           String name = scanner.nextLine();
           System.out.print("Employee ID: ");
           int empId = scanner.nextInt();
           scanner.nextLine(); // Consume the remaining newline character
           // Writing employee details to the file
           bw.write("Employee " + i + " - Name: " + name + ", Employee ID: " + empId);
           bw.newLine();
        }
        bw.flush();
        bw.close();
        System.out.println("Employee details written to emp.txt successfully!");
   }
}
/* Output (See the contents of empt.txt file) */
/*
Enter the number of employees:
2
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Enter details for Employee 1:
Name: Arman Udhani
Employee ID: 10
Enter details for Employee 2:
Name: Dhairya Udhani
Employee ID: 20
Employee details written to emp.txt successfully!
 */
/*---------------------------------------------------------------------------------------------------------------------- */
/*QB314 Write a program that counts number of characters, words, and
lines in a text file. */
class QB314
{
   public static void main(String[] args) throws IOException
   {
      FileWriter fw = new FileWriter("sample.txt");
      BufferedWriter bw = new BufferedWriter(fw);
      bw.write("Amit Udhani");
      bw.newLine();
      bw.write("Sumit chawla");
      bw.newLine();
      bw.write("vinit Goplani");
      bw.newLine();
      bw.flush();
      bw.close();
      int charCount=0;
      int wordCount=0;
      int lineCount=0;
      FileReader fr = new FileReader("sample.txt");
      BufferedReader br = new BufferedReader(fr);
      System.out.println("Contents of sample.txt file:");
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        String Line = br.readLine();
        while(Line!=null)
        {
           System.out.println(Line);
           lineCount++;
           String[] words=Line.split(" ");
           wordCount=wordCount+words.length;
           for(String eachWord:words)
           {
              charCount=charCount+eachWord.length();
           }
           Line=br.readLine();
        }
        br.close();
        System.out.println("Total number of characters in sample.txt:" +charCount);
        System.out.println("Total number of words in sample.txt:" +wordCount);
        System.out.println("Total number of Lines in sample.txt:" +lineCount);

    }
}
/*Output*/
/*
Contents of sample.txt file:
Amit Udhani
Sumit chawla
vinit Goplani
Total number of characters in sample.txt:33
Total number of words in sample.txt:6
Total number of Liness in sample.txt:3
 */
/* Important note: QB316 is same as QB312 */
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```
/* QB317 Write a Java program to copy content of file1.txt to file2.txt
using Java file handling */
class QB317
{
public static void main(String[] args)throws IOException
{
FileWriter fw1=new FileWriter("file1.txt");
BufferedWriter bw1=new BufferedWriter(fw1);
bw1.write("111");
bw1.newLine();
bw1.write("222");
bw1.newLine();
bw1.write("333");
bw1.newLine();
bw1.write("444");
bw1.flush();
bw1.close();//compulsory to close

FileWriter fw2=new FileWriter("file2.txt");
BufferedWriter bw2=new BufferedWriter(fw2);
FileReader fr1=new FileReader("file1.txt");
BufferedReader br1=new BufferedReader(fr1);
System.out.println("Contents of file1.txt are copied to file2.txt");
String line=br1.readLine();
while(line!=null)
{

System.out.println(line);
bw2.write(line);
bw2.newLine();
line=br1.readLine();
```

```
}
br1.close();
bw2.close();
}
}
/* Output */
/*
Contents of file1.txt are copied to file2.txt
111
222
333
444
 */
/*-----------------------------------------------------------------------------------------------------------------------------
-- */
/*QB318 Write an application that reads a file and counts the number of
occurrences of digit 5. Supply the file name as a command-line
argument
 */

//import java.io.*;



class QB318 {
   public static void main(String[] args) throws IOException {
      if (args.length != 1) {
         System.out.println("Enter Valid filename");
         return;
      }

      String fileName = args[0];
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        BufferedWriter bw = new BufferedWriter(new FileWriter(fileName));
        bw.write('5');
        bw.newLine();
        bw.write("amit5");
        bw.newLine();
        bw.write("Sumit7");
        bw.newLine();
        bw.flush();
        bw.close();
        BufferedReader br = new BufferedReader(new FileReader(fileName));
        int count = 0;
        int ch;

            while ((ch = br.read()) != -1) {
                if (ch == '5') {
                    count++;
                }
            }
            br.close();

            System.out.println("Number of occurrences of digit 5 in " + fileName + ": " + count);
        }
    }
    /* Output */
    /*
     Number of occurrences of digit 5 in 318.txt: 2
     */
/*------------------------------------------------------------------------------------------------------------------------ */
/*QB319 wap to replace all word1 by word2 from a file 1 and output is return to file2 also display no of replacement */
//import java.io.*;
```

```
//import java.util.*;
class QB319
{
   public static void main(String[] args) throws IOException
   {
   Scanner sc =new Scanner(System.in);
   BufferedWriter bw = new BufferedWriter(new FileWriter("file1.txt"));

   bw.write("Hi amit hi how r you");
   bw.newLine();
   bw.write("hi");
   bw.close();
   System.out.println("Enter word you want to replace");
   String word1=sc.next();
   System.out.println("Enter what word you want");
   String word2=sc.next();
   BufferedReader br = new BufferedReader(new FileReader("file1.txt"));
   BufferedWriter bw1 = new BufferedWriter(new FileWriter("file2.txt"));
   String rep="";
   String s=br.readLine();
   int cnt=0;
   while(s!=null)
   {
      //String temp="";
     //System.out.println(s);
      String s1[]=s.split(" ");
      for(String s2:s1)
      {
         if(s2.equals(word1))
         {
            s2=word2;
```

```
            cnt++;
          }
          rep=rep+s2+" ";
           String temp=rep;
           bw1.write(temp);

           rep="";

       }

    s=br.readLine();
    bw1.newLine();

    }
    bw1.close();

    FileReader fr1 = new FileReader("file2.txt");
    BufferedReader br1 = new BufferedReader(fr1);
    String line = br1.readLine();

    while(line!=null)
    {
    System.out.println(line);
    line = br1.readLine();



    }
    br.close();
    br1.close();
    System.out.println("Number of replaced words"+cnt);
}
```

```
}
/*Output */
/*
Enter word you want to replace
hi
Enter what word you want
by
Hi amit by how r you
by
Number of replaced words2
 */
/*-------------------------------------------------------------------------------------------------------------------------------
*/
/* QB323 Write a java program which read numbers from number.txt file
and store even number to even.txt and odd number into odd.txt file.  */
//import java.util.*;
//import java.io.*;
class QB323
{
   public static void main(String[] args) throws IOException
   {
      BufferedWriter bw=new BufferedWriter(new FileWriter("number.txt"));
      bw.write("1");
      bw.newLine();
      bw.write("2");
      bw.newLine();
      bw.write("3");
      bw.newLine();
      bw.write("4");
      bw.newLine();
      bw.write("5");
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```
bw.newLine();
bw.write("6");
bw.newLine();
bw.flush();
bw.close();
BufferedWriter bw1=new BufferedWriter(new FileWriter("odd.txt"));
BufferedWriter bw2=new BufferedWriter(new FileWriter("Even.txt"));
FileReader fr = new FileReader(args[0]);
BufferedReader br = new BufferedReader(fr);
String line=br.readLine();
while(line!=null)
{
   int i =Integer.parseInt(line);
   if(i%2==0)
   {
   bw2.write(line);
   bw2.write("\n");

   }
   else
   {
   bw1.write(line);
   bw1.write("\n");

   }
line=br.readLine();



}
br.close();
bw1.close();
```

```
        bw2.close();


    }
}
/* Output (see the content of odd.txt) */
/*
1
3
5
 */
/* Output (see the content of even.txt) */
/*
2
4
6
 */
```