```
import java.util.*;
import java.io.File;
import java.io.*;
import java.io.FileWriter;
abstract class Welcome
{
      public abstract void greet1();
      public abstract void greet2();
      public abstract void about();
}
class Customer implements CI
{
      public double loani,loan,P,v,qw;
      public double amount,intr,r,t,pro;
      Scanner s=new Scanner(System.in);
      void viewshare()
      {
              try {
   File myObj = new File("filename.txt");
   Scanner myReader = new Scanner(myObj);
   while (myReader.hasNextLine()) {
     String data = myReader.nextLine();
     System.out.println(data);
   }
   myReader.close();
```

```
} catch (FileNotFoundException e) {
   System.out.println("An error occurred.");
        e.printStackTrace();
  }
      }
      void calculator()
       {
             System.out.println("Enter 1 to calculate Present Value");
             System.out.println("Enter 2 to calculate Future Value");
             int i;
             i=s.nextInt();
             switch(i)
             {
                    case 1:
                     class PV
{
       Scanner s=new Scanner(System.in);
       double pv,fv,r,t;
      void pvi()
      {
             System.out.println("Enter the Future value value of your Money");
             fv=s.nextDouble();
             System.out.println("Enter the value of intrest rate");
```

```
r=s.nextDouble();
             System.out.println("Enter the no. of period u want put the money away ");
             t=s.nextDouble();
      }
      void pvo()
      {
             pv=fv/(Math.pow((1+r/100),t));
             System.out.println("Future value is="+pv);
      }
}
PV p1=new PV();
p1.pvi();
p1.pvo();
break;
case 2:
class FV extends PV
{
      double pv,fv,r,t;
      Scanner s=new Scanner(System.in);
      void fvi()
      {
             System.out.println("Enter the Present value value of your Money");
```

```
pv=s.nextDouble();
             System.out.println("Enter the value of intrest rate");
             r=s.nextDouble();
             System.out.println("Enter the no. of period u want put the money away ");
             t=s.nextDouble();
      }
      void fvo()
       {
             fv=pv^*(Math.pow((1+r/100),t));
             System.out.println("Future value is="+fv);
      }
}
FV f1=new FV();
f1.fvi();
f1.fvo();
break;
default:
System.out.println("nothing is selected");
             }
      }
      void advisor()
      {
             System.out.println("how much do u want to invest");
             P=s.nextDouble();
             System.out.println("\n Enter your saving amount");
```

```
double saving=s.nextDouble();
       System.out.println("\n You have to take load of amount");
       double loan=P-saving;
       this.loan=loan;
       System.out.println("loan"+loan);
}
void pl()
{
       class Profits extends FV
{
void prof()
{
pro=fv-amount;
System.out.println("Total profit is: ="+pro);
}
}
Profits p5=new Profits();
p5.prof();
}
public void cii()
{
       System.out.println("enter the loan amount");
       qw=s.nextDouble();
```

```
System.out.println("Enter rate of intrest");
             r=s.nextDouble();
             System.out.println("Enter time in years");
             t=s.nextDouble();
      }
      public void cio()
      {
             loani=qw*(Math.pow((r/100),t));
             amount=amount+intr;
             System.out.println("Compound Intrest is"+loani);
             System.out.println("\nTotal Amount is"+amount);
      }
}
class Administration extends Customer
{
      double tax,pv,fv;
      void deatil()
      {
      class Inventary
{
      int c;
      Scanner s=new Scanner(System.in);
```

```
void detail()
      {
                     do
             {
                     System.out.println("Enter your choice"+"\n Press 1) Adding new
prodects"+"\n Press 2) For viewing Products Prices"+"\n Press 3) For Deleting the
Product detail content");
                     int i;
                    i=s.nextInt();
                     switch(i)
                     {
                            case 1:
                           try {
    FileWriter myWriter = new FileWriter("filename.txt");
   myWriter.write("Please go manually and add products deatil directly by scrapping
data onlinr from share market websites");
    myWriter.close();
    System.out.println("Successfully wrote to the file.");
  } catch (IOException e) {
   System.out.println("An error occurred.");
  }
                            break;
                            case 2:
                     try {
    File myObj = new File("filename.txt");
```

```
Scanner myReader = new Scanner(myObj);
 while (myReader.hasNextLine()) {
  String data = myReader.nextLine();
  System.out.println(data);
 }
 myReader.close();
} catch (FileNotFoundException e) {
 System.out.println("An error occurred.");
}
                         break;
                         case 3:
                         File myObj = new File("filename.txt");
if (myObj.delete()) {
 System.out.println("Deleted the file: " + myObj.getName());
} else {
 System.out.println("Failed to delete the file.");
}
                         break;
                         default:
                         System.out.println("Nothing is selected");
                         System.out.println("Try agian"+"File is created");
                        try {
```

```
File myObj2 = new File("filename.txt");
    if (myObj2.createNewFile()) {
     System.out.println("File created: " + myObj2.getName());
   } else {
     System.out.println("File already exists.");
   }
  } catch (IOException e) {
   System.out.println("An error occurred.");
  }
                     }
                     System.out.println("U want to meanu again");
                     System.out.println("Press 0 to show the meanu again");
                c=s.nextInt();
             }
              while(c==0);//if it is Y then do will run again and if it is other then Y then
loop will terminate.
}
}
Inventary inv=new Inventary();
inv.detail();
}
             void calculator()
      {
```

```
System.out.println("Enter 1 to calculate Present Value");
             System.out.println("Enter 2 to calculate Future Value");
             int i;
             i=s.nextInt();
             switch(i)
             {
                    case 1:
                    class PV
{
       Scanner s=new Scanner(System.in);
       double pv,fv,r,t;
      void pvi()
       {
              System.out.println("Enter the Future value value of your Money");
             fv=s.nextDouble();
             System.out.println("Enter the value of intrest rate");
             r=s.nextDouble();
             System.out.println("Enter the no. of period u want put the money away ");
             t=s.nextDouble();
      }
      void pvo()
       {
             pv=fv/(Math.pow((1+r/100),t));
              System.out.println("Future value is="+pv);
```

```
}
}
PV p2=new PV();
p2.pvi();
p2.pvo();
break;
case 2:
class FV extends PV
{
       double r,t;
       Scanner s=new Scanner(System.in);
      void fvi()
      {
             System.out.println("Enter the Present value value of your Money");
             pv=s.nextDouble();
             System.out.println("Enter the value of intrest rate");
             r=s.nextDouble();
             System.out.println("Enter the no. of period u want put the money away ");
             t=s.nextDouble();
      }
      void fvo()
      {
```

```
fv=pv*(Math.pow((1+r/100),t));
              v=fv-pv;
             System.out.println("Future value is="+fv);
             System.out.println("Total profit is="+v+"\n");
      }
}
FV f2=new FV();
f2.fvi();
f2.fvo();
break;
default:
System.out.println("nothing is selected");
             }
      }
      void taxes()
       {
             tax=loani+v;
             class SI extends FV
{
       Scanner s=new Scanner(System.in);
       double intr,r,t,P;
      double amount=0;
void sii()
{
```

```
System.out.println("Enter the total profit");
       P=s.nextDouble();
       System.out.println("Enter rate of intrest");
       r=s.nextDouble();
       System.out.println("Enter time in years");
       t=s.nextDouble();
       intr=(P^*r^*t)/100;
       amount=amount+intr;
       System.out.println("Tax is:"+intr);
       System.out.println("\nTotal Profit is"+tax);
}
}
       SI s1=new SI();
       s1.sii();
}
}
interface CI
{
       public void cii();
       public void cio();
}
```

```
class Greeting extends Welcome
{
      public void greet1()
      {
             System.out.println("Welcome to Vaibhav's World!");
      }
      public void greet2()
      {
             System.out.println("Good Bye!");
             System.out.println("Thank you for visiting!");
      }
      public void about()
      {
             System.out.println("Name:Vaibhav Kuamr");
             System.out.println("Section:K18RD");
             System.out.println("Roll No.:08");
      }
}
class CA extends Greeting
{
public static void main(String args[])
{
      CA k=new CA();
```

```
k.greet1();
int n;
      int c;
      Scanner s=new Scanner(System.in);
System.out.println("Enter your choice:"+"\n Press: \n 1)For Customer \n 2)For
Administration"+"\n");
      n=s.nextInt();
do
{
      switch(n)
                    {
                           case 1:
                                  s.nextLine();
                                  System.out.println("Enter your User Name ");
            String username = s.nextLine();
                                  s.nextLine();
                                  System.out.println("Enter your Password ");
            String password = s.nextLine();
                                  s.nextLine();
                                  if(username.equals("user") &&
password.equals("user"))
                                  {
                                         int i;
```

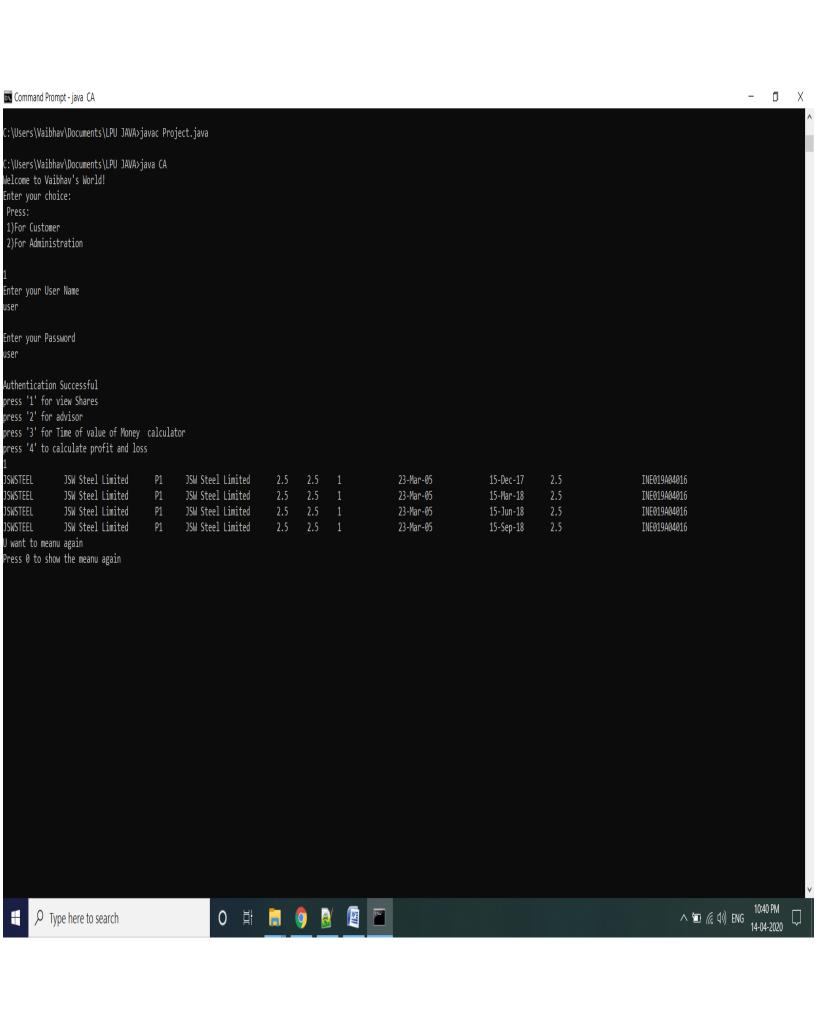
```
System.out.println("Authentication Successful");
                     System.out.println("press '1' for view Shares");
                     System.out.println("press '2' for advisor");
                     System.out.println("press '3' for Time of value of Money
calculator");
                     System.out.println("press '4' to calculate profit and loss");
                     i=s.nextInt();
                     Customer cus=new Customer();
                     switch(i)
                     {
                            case 1:
                            cus.viewshare();
                            break;
                            case 2:
                            cus.advisor();
                            break;
                            case 3:
                            cus.calculator();
                            break;
                            case 4:
                            cus.cii();
                            cus.cio();
                            cus.pl();
                            default:
```

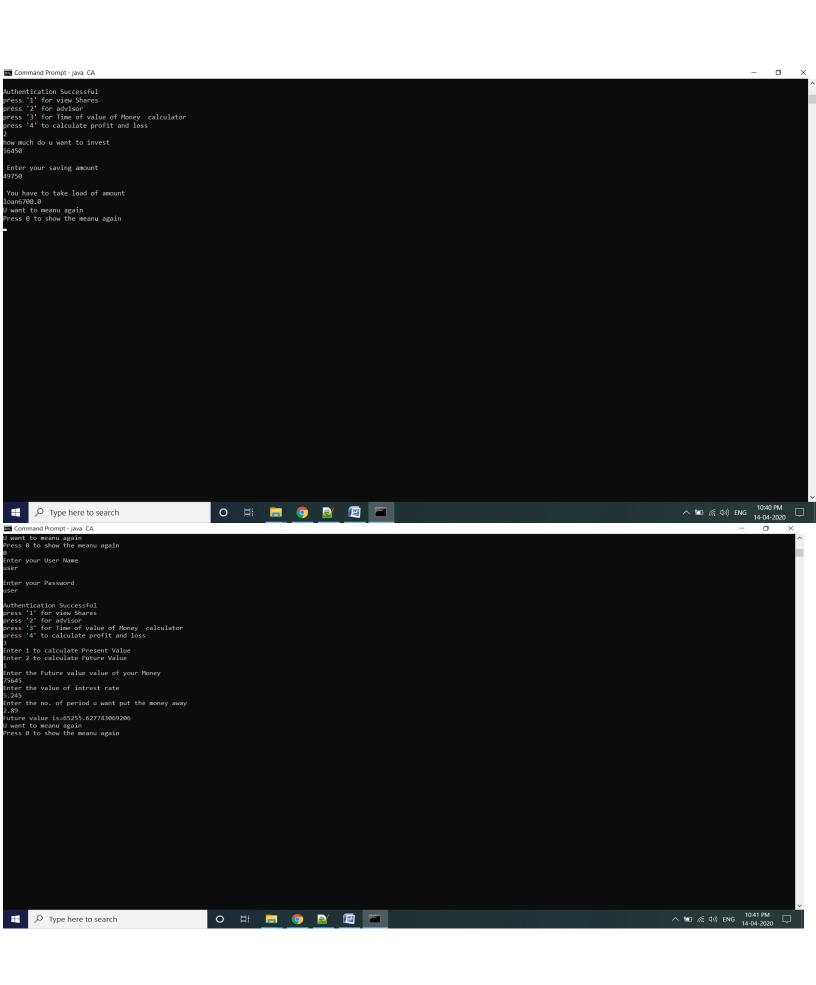
```
}
                    break;
                    }
     else
    {
       System.out.println("Authentication Failed");
             }
                           break;
                           case 2:
                             s.nextLine();
                                  System.out.println("Enter your User Name ");
            String username_a = s.nextLine();
                                  s.nextLine();
                                  System.out.println("Enter your Password ");
            String password_a = s.nextLine();
                                  s.nextLine();
                                  if(username_a.equals("admin") &&
password_a.equals("admin"))
                                  {
       System.out.println("Authentication Successful");
                    System.out.println("press '1' for Shares");
                    System.out.println("press '2' for Time of value of Money
calculator");
```

System.out.println("nothing is selected");

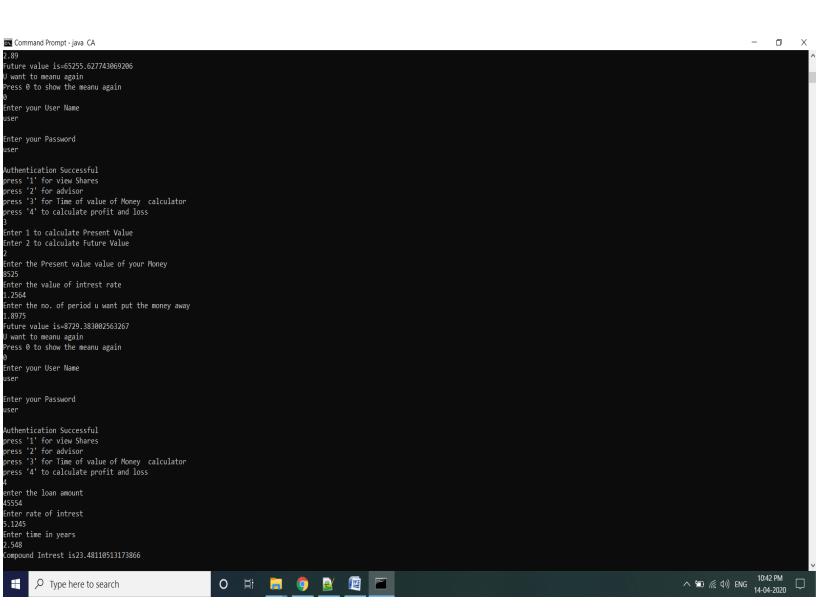
```
System.out.println("press '3' for Taxes");
                int i=s.nextInt();
                Administration ad=new Administration();
                switch(i)
                {
                       case 1:
                       ad.deatil();
                       break;
                       case 2:
                       ad.calculator();
                       break;
                       case 3:
                       ad.taxes();
                       break;
                       default:
                       System.out.println("nothing is selected");
                }
                break;
                }
else
{
  System.out.println("Authentication Failed");
}
                       break;
```

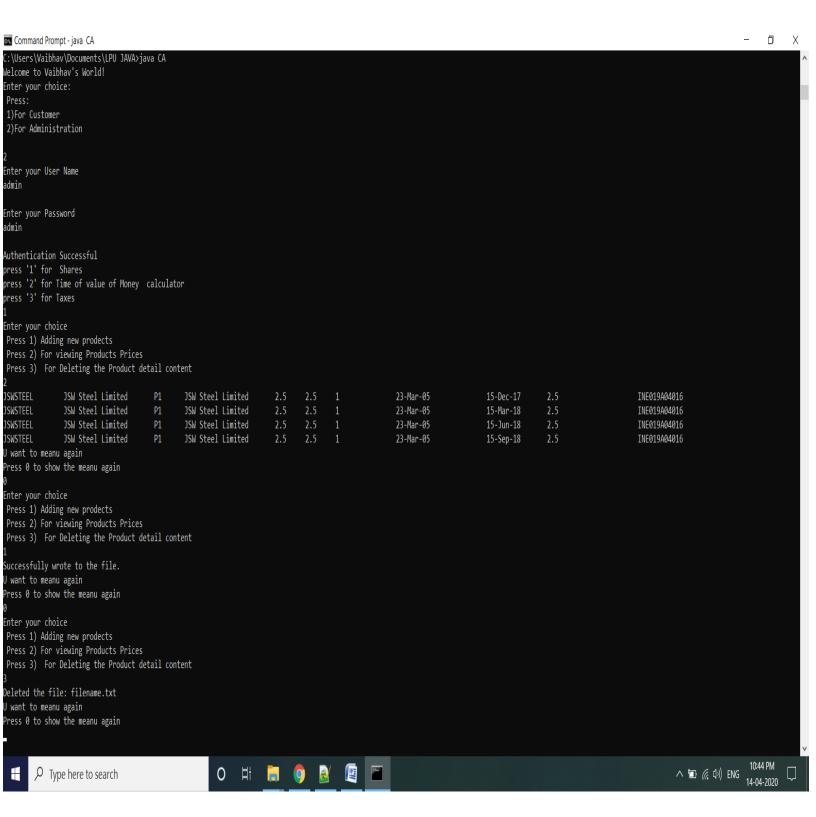
```
default:
                            System.out.println("Nothing is selected");
                     }
                     System.out.println("U want to meanu again");
                     System.out.println("Press 0 to show the meanu again");
                      c=s.nextInt();
              }
              while(c==0);//if it is Y then do will run again and if it is other then Y then
loop will terminate.
              k.greet2();
       k.about();
       }
}
```

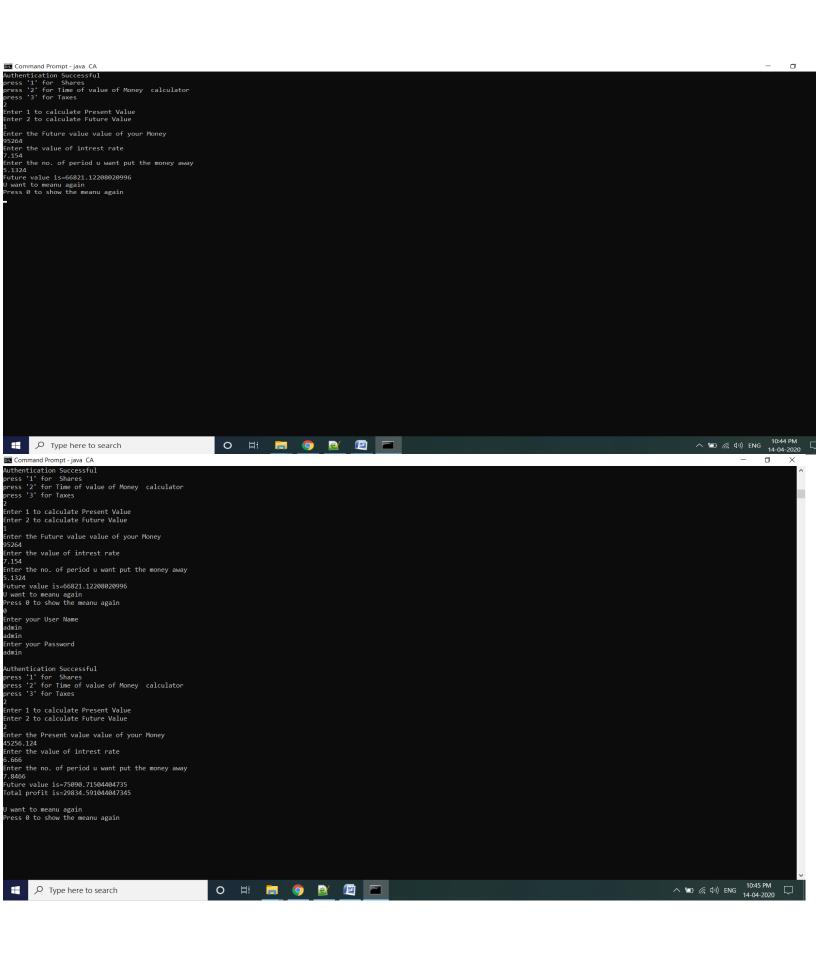


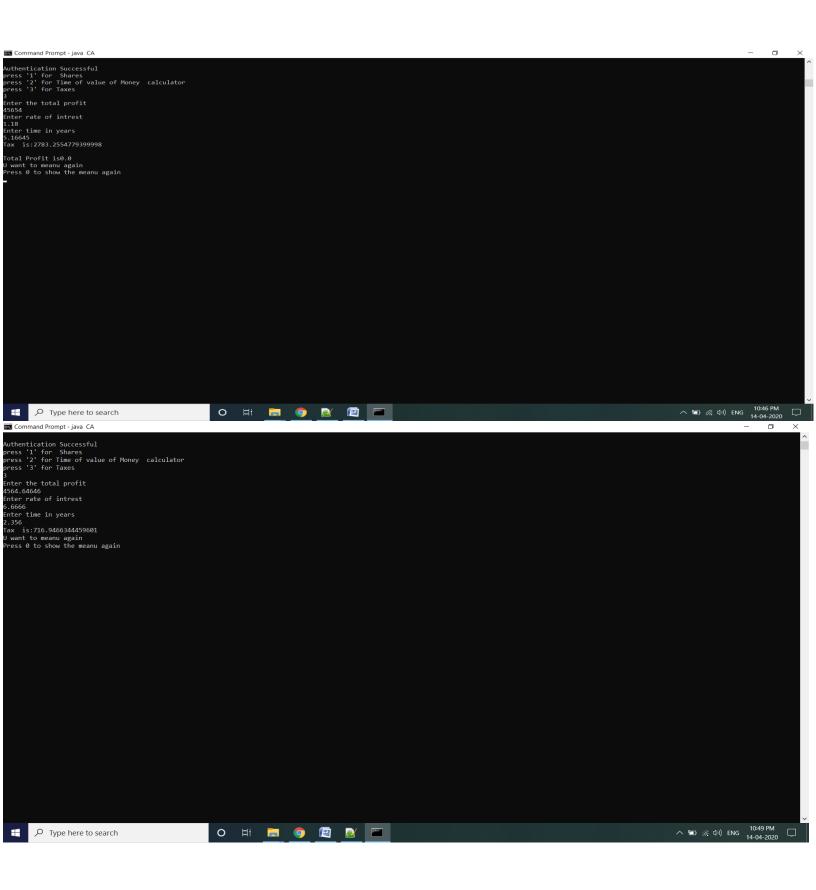


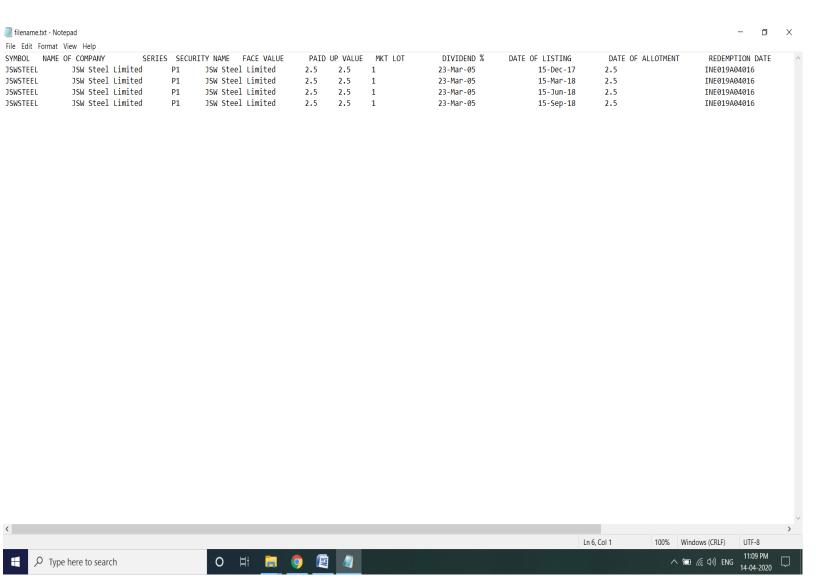












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