MID TERM PRACTICAL

NAME- PAWAN PANDEY

ID- 20711140

1.
```
class reversestring1{
    public static void main(String[] argss){

        String input = "pandey";
        String output = "";
        char c1 = input.charAt(0);
        char c2 = input.charAt(input.length()-1);
        output = "" + String.valueOf(c1).toUpperCase();
        int length = input.length()-2;
        while(length>0){
            output = output + String.valueOf(input.charAt(length));
            length--;
        }
        output = output + String.valueOf(c2).toUpperCase();

    System.out.println("Input: " + input);

        System.out.println("Output: " + output);
    }

}
```

2.
```
import java.io.*;

import java.lang.*;

class LessBalanceException extends Exception

{

 LessBalanceException(double amt)

 {

 System.out.println("Withdrawing "+amt+" is invlaid");

 }

}

class Account
```

```
{
 static int count=0;
 int accno;
 double bal;
 String name;
 Account(double bal,String n,int accno)
 {
  System.out.println("\nNew Account opened....!!");
  this.bal=bal;
  count++;
  System.out.println("Account Holder Name : " + n);
  name=n;
  System.out.println("Your Account Number is : "+accno);
  this.accno=accno;
  System.out.println("Total number of accounts : "+count);

 }
 void deposit(double amt)
 {
  System.out.println("Availabe Balance : "+bal);
  bal=bal+amt;
  System.out.println("Rs. : "+amt+" /- Created");
  System.out.println("Balance : "+bal);
 }
 void withdraw(double amt) throws LessBalanceException
```

```
{
 System.out.println("\nAvailabe Balance : "+bal);
 bal-=amt;
 if(bal<500)
 {
  bal+=amt;
  throw new LessBalanceException(amt);
 }
 System.out.println("Rs. : "+amt+ "/-Debited");
 System.out.println("Balacne : "+bal);
}
 void balance()
 {
  System.out.println("\nCustomer information");
  System.out.println("=========================================");
  System.out.println("Customer Name : "+name);
  System.out.println("Account Number : "+accno);
  System.out.println("Balance : "+bal);
 }
}
class AccountDemo
{
 static int i=0;
 public static void main(String argv[]) throws IOException
 {
```

```
Account ob[]=new Account[10];
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
double amt;
String name;
int ch,accno,k;
boolean t=false;
while(true)
{
 System.out.println("\n******* Bank Transaction *********");
 System.out.println("1.Open new Account\n2.Deposit");
 System.out.println("3.Withdraw\n4.Balance\n5.Exit");
 System.out.print("Enter your choice : ");
 ch=Integer.parseInt(br.readLine());
 switch(ch)
 {
 case 1:
 System.out.println("Opening New Account : ");
 System.out.print("Enter your name : ");
 name=br.readLine();
 System.out.print("\nEnter Account Number : ");
 accno=Integer.parseInt(br.readLine());
 System.out.print("\nEnter initial amount(to be >=500) : ");
 amt=Double.parseDouble(br.readLine());
 if(amt<500)
 System.out.println("You cannot create an account with less than Rs.500/-");
```

```
else
{
 ob[i]=new Account(amt,name,accno);
 i++;
}
break;

case 2:
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
{
 t=true;
 break;
}

if(t)
{
 System.out.print("\nEnter the Amount for Deposit : ");
 amt=Double.parseDouble(br.readLine());
 ob[k].deposit(amt);
}
else
System.out.println("Invalid Account Number...!!!");
```

```
t=false;
break;

case 3:
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
{
 t=true;
 break;
}

if(t)
{
 System.out.print("\nEnter the Amount for Withdraw : ");
 amt=Double.parseDouble(br.readLine());
 try
 {
  ob[k].withdraw(amt);
 }
 catch(LessBalanceException e)
 {}
}
else
```

```
System.out.println("Invalid Account Number...!!!");
t=false;
break;

case 4:
System.out.print("\nEnter Account number : ");
accno=Integer.parseInt(br.readLine());
for(k=0;k<i;k++)
if(accno==ob[k].accno)
{
 t=true;
 break;
}

if(t)
{
 //System.out.println(accno +" asdfsdf " +ob[k].accno);
 ob[k].balance();
}
else
System.out.println("Invalid Account Number...!!!");
t=false;
break;

case 5:
```

```
   System.exit(1);
   default: System.out.println("Invalid Choice !!!");
   }
  }
 }
}
```