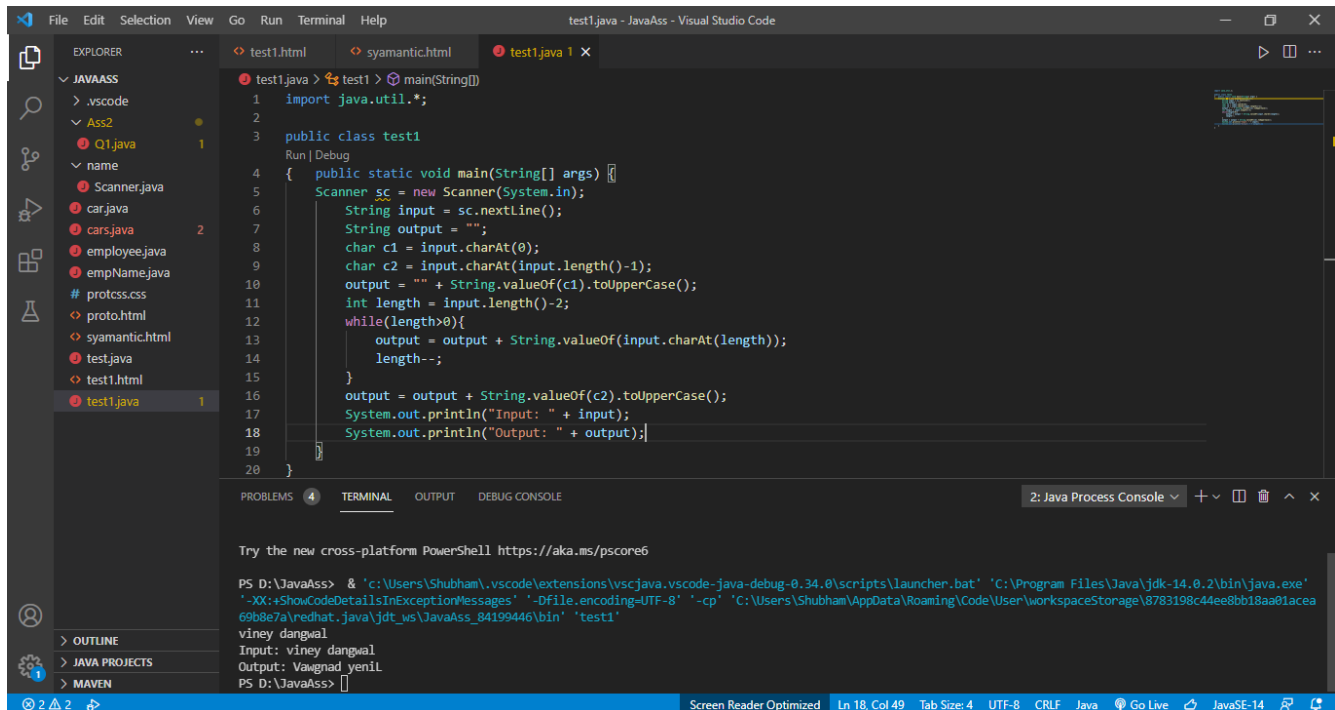**1. Write a Java Program which, prints the elements of a string in such a way that the first and last element of the string are printed in Upper case and the intermediate elements are printed in reverse order.(do not use inbuilt function for reverse)**
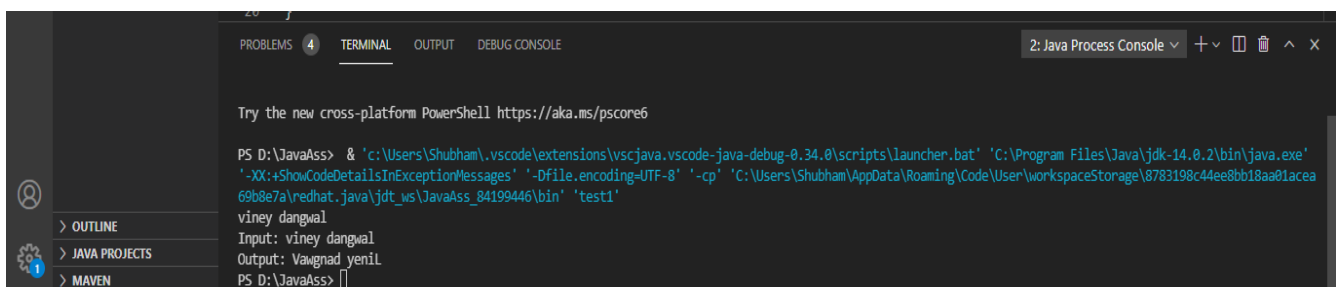
2. Write a Java Program that has a Class Which Creates Account, perform Deposite Money and Tries to WithDraw more Money Which Generates a LessBalanceException. Create BankAccount with 500 Rs Minimum Balance, Deposit Amount, Withdraw Amount and Also Throws LessBalanceException. Class LessBalanceException returns the Statement that Says WithDraw Amount(_Rs) is Not Valid.

```java
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("\n Congratulation 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
 {
```

```java
    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(min amnt =500) : ");
```

```java
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
```

```java
    {
     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)
    {

     ob[k].balance();
    }
    else
    System.out.println("Invalid Account Number");
    t=false;
    break;

    case 5:
    System.exit(1);
    default: System.out.println("Invalid Choice");
    }
   }
  }
}
```

```
C:\Users\sudarshan\Documents\JAVA PROGRAMS>javac AccountDemo.java

C:\Users\sudarshan\Documents\JAVA PROGRAMS>java AccountDemo

******* Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : 1
Opening New Account :
Enter your name : Viney Dangwal

Enter Account Number : 56758758

Enter initial amount(to be >=500) : 10000

New Account opened....!!
Account Holder Name : Viney Dangwal
Your Account Number is : 56758758
Total number of accounts : 1

******* Bank Transaction *********
1.Open new Account
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice :
```