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course - MCA 2 C

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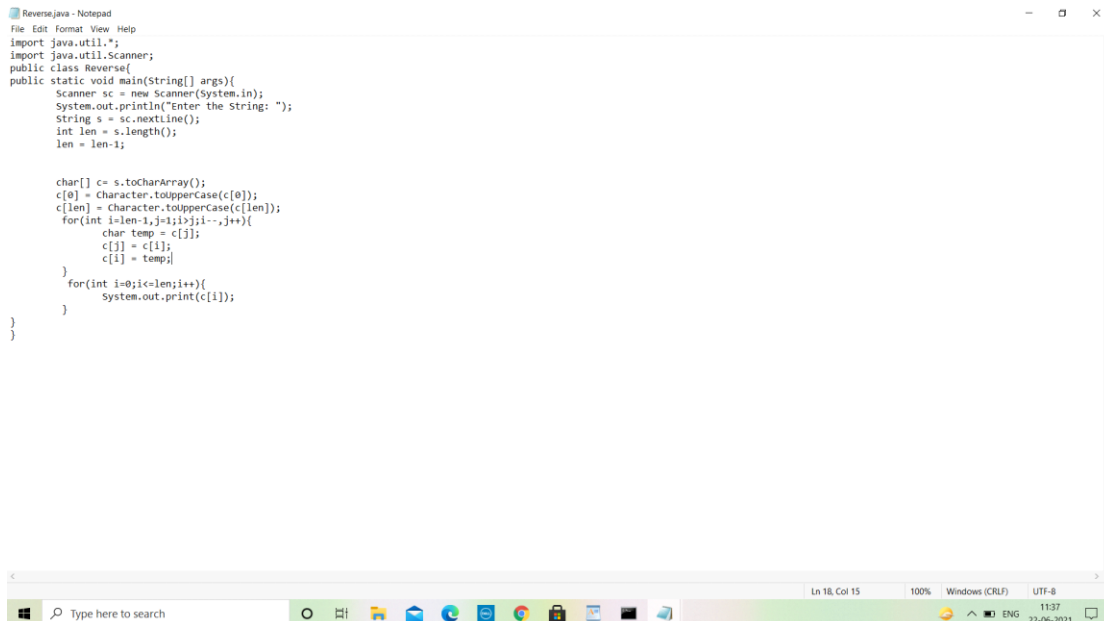
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Q1.

```
import java.util.*;  
import java.util.Scanner;  
public class Reverse{  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the String: ");  
        String s = sc.nextLine();  
        int len = s.length();  
        len = len-1;  
        char[] c= s.toCharArray();
```

```
c[0] = Character.toUpperCase(c[0]);  
  
c[len] = Character.toUpperCase(c[len]);  
  
for(int i=len-1,j=1;i>j;i--,j++){  
  
    char temp = c[j];  
  
    c[j] = c[i];  
  
    c[i] = temp;  
  
}  
  
for(int i=0;i<=len;i++){  
  
    System.out.print(c[i]);  
  
}}}
```



```
Reverse.java - Notepad  
File Edit Format View Help  
import java.util.*;  
import java.util.Scanner;  
public class Reverse{  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the String: ");  
        String s = sc.nextLine();  
        int len = s.length();  
        len = len-1;  
  
        char[] c= s.toCharArray();  
        c[0] = Character.toUpperCase(c[0]);  
        c[len] = Character.toUpperCase(c[len]);  
        for(int i=len-1,j=1;i>j;i--,j++){  
            char temp = c[j];  
            c[j] = c[i];  
            c[i] = temp;  
        }  
        for(int i=0;i<=len;i++){  
            System.out.print(c[i]);  
        }  
    }  
}
```

```
1 error

C:\Users\Kavita\Desktop>
C:\Users\Kavita\Desktop>javac Reverse.java

C:\Users\Kavita\Desktop>java Reverse
Enter the String:
my name is kavita kandpal
Mapdnak ativak si eman yL
C:\Users\Kavita\Desktop>
```

Q2.

```
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("\n*****Customer 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 !!!");
    }
}
}
}
```



```
AccountDemo.java - Notepad
File Edit Format View Help
}
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("Balance : "+bal);
}
void balance()
{
    System.out.println("\n*****Customer 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)
            {

```

```
AccountDemo.java - Notepad
File Edit Format View Help
            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:

```



```
Command Prompt - java AccountDemo
2.Deposit
3.Withdraw
4.Balance
5.Exit
Enter your choice : yes
Exception in thread "main" java.lang.NumberFormatException: For input string: "yes"
    at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:67)
    at java.base/java.lang.Integer.parseInt(Integer.java:660)
    at java.base/java.lang.Integer.parseInt(Integer.java:778)
    at AccountDemo.main(AccountDemo.java:73)

C:\Users\Kavita\Desktop>javac AccountDemo.java

C:\Users\Kavita\Desktop>javac AccountDemo.java

C:\Users\Kavita\Desktop>java AccountDemo

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