Assignment 01 : WAP to Check whether given matrix is symmetric or not

Code :

```
import java.util.Scanner;
public class aSymmetricMattrix {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int m, n;
System.out.println("Enter the dimensions of array : ");
System.out.print("Etner the number of rows : ");
m = sc.nextInt();
System.out.print("Etner the number of columns : ");
n = sc.nextInt();
int arr[][];
arr = new int[m][n];
int i,j,flag = 0;

String remk = "Input matrix is a square matrix and the transpose of matrix is equivalent to input matrix!";
if(m==n){
System.out.println("Enter the elements of matrix [][] : ");
for(i=0; i<m; i++){
for(j=0; j<n; j++){
System.out.print("Enter value at arr["+i+"]["+j+"] : ");
arr[i][j] = sc.nextInt();
sc.nextLine();
```

```
}
}
System.out.println("The input matrix is : ");
for(int x[]:arr){
for(int y:x){
System.out.print(y);
}
System.out.println();
}
for(i=0; i<m; i++){
for(j=0; j<n; j++){
if(arr[i][j]==arr[j][i] || i==j){
flag = 1;
}
else{
flag = 0;
remk = "As the transpose is not equivalent to orignal matrix!";
break;
}
}
}
}
else{
flag = 0;
remk = "As its not a square matrix!";
}
if(flag==1){
```

```
System.out.println("The matrix is Symmetric!");
System.out.println(remk);
System.out.println("Transpose of matrix is : ");
for(i=0; i<m; i++){
for(j=0; j<n; j++){
System.out.print(arr[j][i]);
}
System.out.println();
}
}
else{
System.out.println("The matrix is not Symmetric!");
System.out.println(remk);
System.out.println("Transpose of matrix is : ");
for(i=0; i<m; i++){
for(j=0; j<n; j++){
System.out.print(arr[j][i]);
}
System.out.println();
}
}
sc.close();
}
}
```

Output:

```
Enter the dimensions of array :
Etner the number of rows : 3
Etner the number of columns : 3
Enter the elements of matrix [][] :
Enter value at arr[0][0] : 1
Enter value at arr[0][1] : 2
Enter value at arr[0][2] : 3
Enter value at arr[1][0] : 2
Enter value at arr[1][1] : 4
Enter value at arr[1][2] : 5
Enter value at arr[2][0] : 3
Enter value at arr[2][1] : 5
Enter value at arr[2][2] : 6
The input matrix is :
123
245
356
The matrix is Symmetric!
Input matrix is a square matrix and the transpose of matrix is equivalent to input matrix!
Transpose of matrix is :
123
245
356
```

```
Enter the dimensions of array :
Etner the number of rows : 3
Etner the number of columns : 4
The matrix is not Symmetric!
As its not a square matrix!
```

```
Enter the dimensions of array :
Etner the number of rows : 3
Etner the number of columns : 3
Enter the elements of matrix [][] :
Enter value at arr[0][0] : 1
Enter value at arr[0][1] : 2
Enter value at arr[0][2] : 3
Enter value at arr[1][0] : 4
Enter value at arr[1][1] : 5
Enter value at arr[1][2] : 6
Enter value at arr[2][0] : 7
Enter value at arr[2][1] : 8
Enter value at arr[2][2] : 9
The input matrix is :
123
456
789
The matrix is not Symmetric!
As the transpose is not equivalent to orignal matrix!
Transpose of matrix is :
147
258
369
```

Assignment 02 : WAP to find the product of 2 matrix

Code:

```
import java.util.Scanner;

public class bProductOfMatrix {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

int m, n, o, p, i, j, k, res=0;
System.out.println("Enter the dimensions of 1st matrix : ");
System.out.print("Etner the number of rows : ");
m = sc.nextInt();
System.out.print("Etner the number of columns : ");
n = sc.nextInt();

System.out.println("Enter the dimensions of 2nd matrix : ");
System.out.print("Etner the number of rows : ");
o = sc.nextInt();
System.out.print("Etner the number of columns : ");
p = sc.nextInt();

int arr1[][];
arr1 = new int[m][n];

int arr2[][];
arr2 = new int[o][p];
```

```
if(n==o){
int arr3 [][];
arr3 = new int[m][p];

System.out.println("Enter the elements of 1st matrix [][] : ");
for(i=0; i<m; i++){
for(j=0; j<n; j++){
System.out.print("Enter value at arr["+i+"]["+j+"] : ");
arr1[i][j] = sc.nextInt();
sc.nextLine();
}
}

System.out.println("Enter the elements of 2nd matrix [][] : ");
for(i=0; i<o; i++){
for(j=0; j<p; j++){
System.out.print("Enter value at arr["+i+"]["+j+"] : ");
arr2[i][j] = sc.nextInt();
sc.nextLine();
}
}

System.out.println("The 1st matrix is : ");
for(int x[]:arr1){
for(int y:x){
System.out.print(y+" ");
```

```
}
System.out.println();
}

System.out.println("The 2nd matrix is : ");
for(int x[]:arr2){
for(int y:x){
System.out.print(y+" ");
}
System.out.println();
}
for(i = 0; i<m; i++){
for(j=0; j<p; j++){
for(k=0; k<o; k++){
res = res + (arr1[i][k]*arr2[k][j]);
}
arr3 [i][j] = res;
res = 0;
}
res = 0;
}

System.out.println("The product of matrix 1 & matrix 2 is : ");
for(int x[]:arr3){
for(int y: x){
System.out.print(y+" ");
}
```

```
System.out.println();
}
}

else{
System.out.println("Product of matrices is not possible as the number of columns of 1st matrix is not equvivalent to number of rows of 2nd matrix!");
}

sc.close();
}
}
```

Output :

```
Enter the dimensions of 1st matrix :
Etner the number of rows : 2
Etner the number of columns : 3
Enter the dimensions of 2nd matrix :
Etner the number of rows : 3
Etner the number of columns : 2
Enter the elements of 1st matrix [][] :
Enter value at arr[0][0] : 1
Enter value at arr[0][1] : 2
Enter value at arr[0][2] : 3
Enter value at arr[1][0] : 4
Enter value at arr[1][1] : 5
Enter value at arr[1][2] : 6
Enter the elements of 2nd matrix [][] :
Enter value at arr[0][0] : 7
Enter value at arr[0][1] : 8
Enter value at arr[1][0] : 9
Enter value at arr[1][1] : 10
Enter value at arr[2][0] : 11
Enter value at arr[2][1] : 12
The 1st matrix is :
1 2 3
4 5 6
The 2nd matrix is :
7 8
9 10
11 12
The product of matrix 1 & matrix 2 is :
58 64
139 154
```

```
Enter the dimensions of 1st matrix :
Etner the number of rows : 3
Etner the number of columns : 2
Enter the dimensions of 2nd matrix :
Etner the number of rows : 3
Etner the number of columns : 2
Product of matrices is not possible as the number of columns of 1st matrix is not equvivalent to number of rows of 2nd matrix!
```

Assignment 03 : WAP to check whether a given matrix is upper triangualar or not

Code:

```
import java.util.Scanner;

public class cUppertriangularMatrix {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int arr[][];

System.out.print("Enter the number of rows in matrix : ");
int m = sc.nextInt();
sc.nextLine();
System.out.print("Enter the number of columns in matrix : ");
int n = sc.nextInt();
sc.nextLine();

if(m==n){
int i,j,flag = 0;
arr = new int[m][n];
System.out.println("Enter the elements of matrix : ");
for(i=0; i<m; i++){
for(j=0; j<n; j++){
System.out.printf("Value at arr[%d][%d] : ",i,j);
arr[i][j] = sc.nextInt();
sc.nextLine();
```

```
}
}

System.out.println("The matrix is : ");
for(int x[]: arr){
for(int y: x){
System.out.print(y+" ");
}
System.out.println();
}
for(i=0; i<m; i++){
for(j=0; j<n; j++){
if(i>j){
if(arr[i][j]==0){
flag = 1;
}
else{
flag = 0;
break;
}
}
}
}
if (flag == 1){
System.out.println("The above matrix is an upper triangular matrix!");
}
else{
```

```
System.out.println("The above matrix is not an upper triangular matrix not all elements below diagonal are zeros!");

}

}

else{

System.out.println("The above matrix is not an upper triangular matrix, as its not a square matrix!");

}

sc.close();

}

}
```

Output:

```
Enter the number of rows in matrix : 3
Enter the number of columns in matrix : 3
Enter the elements of matrix :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[0][2] : 3
Value at arr[1][0] : 0
Value at arr[1][1] : 4
Value at arr[1][2] : 5
Value at arr[2][0] : 0
Value at arr[2][1] : 0
Value at arr[2][2] : 6
The matrix is :
1 2 3
0 4 5
0 0 6
The above matrix is an upper triangular matrix!
```

```
Enter the number of rows in matrix : 3
Enter the number of columns in matrix : 3
Enter the elements of matrix :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[0][2] : 3
Value at arr[1][0] : 0
Value at arr[1][1] : 4
Value at arr[1][2] : 5
Value at arr[2][0] : 0
Value at arr[2][1] : 6
Value at arr[2][2] : 7
The matrix is :
1 2 3
0 4 5
0 6 7
The above matrix is not an upper triangular matrix not all elements below diagonal are zeros!
```

```
Enter the number of rows in matrix : 3
Enter the number of columns in matrix : 4
The above matrix is not an upper triangular matrix, as its not a square matrix!
```

Assignment 04 : WAP to print Pascals Triangle up to n rows

Codes:

```
import java.util.Scanner;

public class dPascalsTriangle {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

int n;
System.out.print("Enter the number of rows for Pascals Triangle : ");
n = sc.nextInt();
sc.nextLine();

if(n>=0){
int i =0, j=0, sp=0, num=1;
System.out.printf("Pascals Triangle up to %d row is : \n",n);
while(i<=n){
while(sp<=(n-i)){
System.out.print(" ");
sp++;
}
num=1;
j=0;
while(j<=i){
System.out.print(num+" ");
```

```
num = num*(i-j)/(j+1);
j++;
}
System.out.println();
i++;
j=0;
sp=0;
}
}
else{
System.out.println("Can't print Pascals Triangle because row number must be non-negative!");
}
sc.close();
}
}
```

Output:

```
Enter the number of rows for Pascals Triangle : 4
Pascals Triangle up to 4 row is :
     1
    1 1
   1 2 1
  1 3 3 1
 1 4 6 4 1
```

```
Enter the number of rows for Pascals Triangle : -1
Can't print Pascals Triangle because row number must be non-negative!
```

Assignment 05 : WAP to find sum of first n nautral numbers using recursion

Code:

```
import java.util.Scanner;

public class eSumOfNnaturalNumbersRecursion {
public static int sum(int n){
if(n==1){
return 1;
}
else{
return n+sum(n-1);
}
}
public static void main(String[] args) {

Scanner sc = new Scanner(System.in);
System.out.print("Enter the value of natural number : ");
int num = sc.nextInt();
sc.nextLine();

if(num>0){
System.out.printf("Sum natural numbers up to %d is : ",num);
int res = sum(num);
System.out.print(res+"\n");
}
else{
```

```
System.out.println("Entered number is not a natural number!");
}
sc.close();
}
}
```

Output:

```
Enter the value of natural number : 6
Sum natural numbers up to 6 is : 21
```

```
Enter the value of natural number : 0
Entered number is not a natural number!
```

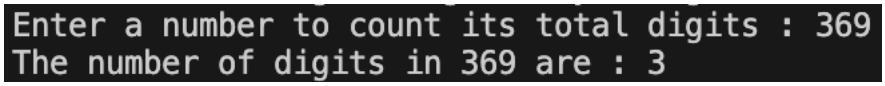
Assignment 06 : WAP to count the number of digits in a given number by defining a method countDigit(n);

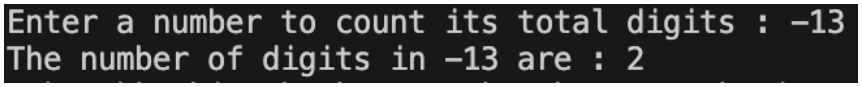
Code :

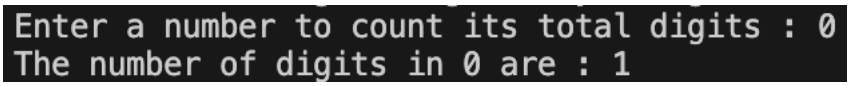
```
import java.util.Scanner;

public class fCountDigits {
public static int countDigit(int n){
int numDigits = 0;
while(n>0){
numDigits++;
n /= 10;
}
return numDigits;
}
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter a number to count its total digits : ");

int num = sc.nextInt();
sc.nextLine();

int res = 0;
if(num>0){
res = countDigit(num);
System.out.printf("The number of digits in %d are : %d \n",num,res);
```

```
}
else if(num<0){
int newnum = -num;
res = countDigit(newnum);
System.out.printf("The number of digits in %d are : %d \n",num,res);
}
else{
res = 1;
System.out.printf("The number of digits in %d are : %d \n",num,res);
}

sc.close();
}
}
```

Output:


Enter a number to count its total digits : 369
The number of digits in 369 are : 3


Enter a number to count its total digits : -13
The number of digits in -13 are : 2


Enter a number to count its total digits : 0
The number of digits in 0 are : 1

Assignment 07 : WAP to find the sum of two matrices using methods.. readMatrix, printMatrix , findSum

Code:

```
import java.util.Scanner;

public class gReadAddPrintSumMatrix {

public static int[][] readMatrix(int rows, int cols){
Scanner sc = new Scanner(System.in);
int a[][];
a = new int[rows][cols];
for(int i=0; i<rows; i++){
for(int j=0; j<cols; j++){
System.out.printf("Value at arr[%d][%d] : ",i,j);
a[i][j] = sc.nextInt();
sc.nextLine();
}
}
return a;
}

public static void printMatrix(int[][] a){
for(int x[]: a){
for(int y: x){
System.out.print(y+" ");
```

```
}
System.out.println();
}
}

public static int [][] sumMatrix(int rows, int cols, int[][]a1, int[][]a2){
int a3[][];
a3 = new int[rows][cols];
for(int i=0; i<rows; i++){
for(int j=0; j<cols; j++){
a3[i][j]= (a1[i][j]+a2[i][j]);
}
}
return a3;
}

public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

System.out.print("Enter the number of rows in 1st matrix : ");
int r1 = sc.nextInt();
sc.nextLine();
System.out.print("Enter the number of cols in 1st matrix : ");
int c1 = sc.nextInt();
sc.nextLine();
System.out.print("Enter the number of rows in 2nd matrix : ");
int r2 = sc.nextInt();
```

```
sc.nextLine();
System.out.print("Enter the number of cols in 2nd matrix : ");
int c2 = sc.nextInt();
sc.nextLine();

if(r1==r2 && c1==c2){
//Input of 2 matrix
System.out.println("Enter the elements in matrix 1 : ");
int arr1[][];
arr1 = new int [r1][c1];
arr1 = readMatrix(r1, c1);
System.out.println("Enter the elements in matrix 2 : ");
int arr2[][];
arr2 = new int [r2][c2];
arr2 = readMatrix(r2, c2);

//Displaying 2 matrices which have been taken as input
System.out.println("Matrix 1 : ");
printMatrix(arr1);
System.out.println("Matrix 2 : ");
printMatrix(arr2);

//Displaying addition of both input matrices
int arr3[][];
arr3 = new int[r1][c1];
arr3 = sumMatrix(r1, c1, arr1, arr2);
System.out.println("Sum of Matrix 1 and Matrix 2 is : ");
```

```
printMatrix(arr3);

}

else{

System.out.println("Cannot perform addition of these 2 matirx as their number of rows and columns aren't equal!");

}


sc.close();

}

}
```

Output:

```
Enter the number of rows in 1st matrix : 2
Enter the number of cols in 1st matrix : 3
Enter the number of rows in 2nd matrix : 2
Enter the number of cols in 2nd matrix : 3
Enter the elements in matrix 1 :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[0][2] : 3
Value at arr[1][0] : 4
Value at arr[1][1] : 5
Value at arr[1][2] : 6
Enter the elements in matrix 2 :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[0][2] : 3
Value at arr[1][0] : 4
Value at arr[1][1] : 5
Value at arr[1][2] : 6
Matrix 1 :
1 2 3
4 5 6
Matrix 2 :
1 2 3
4 5 6
Sum of Matrix 1 and Matrix 2 is :
2 4 6
8 10 12
```

```
Enter the number of rows in 1st matrix : 2
Enter the number of cols in 1st matrix : 2
Enter the number of rows in 2nd matrix : 2
Enter the number of cols in 2nd matrix : 2
Enter the elements in matrix 1 :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[1][0] : 3
Value at arr[1][1] : 4
Enter the elements in matrix 2 :
Value at arr[0][0] : 1
Value at arr[0][1] : 2
Value at arr[1][0] : 3
Value at arr[1][1] : 4
Matrix 1 :
1 2
3 4
Matrix 2 :
1 2
3 4
Sum of Matrix 1 and Matrix 2 is :
2 4
6 8
```

```
Enter the number of rows in 1st matrix : 2
Enter the number of cols in 1st matrix : 2
Enter the number of rows in 2nd matrix : 3
Enter the number of cols in 2nd matrix : 3
Cannot perform addition of these 2 matirx as their number of rows and columns aren't equal!
```

Assignment 08 : WAP to define findArea method using method overlaoding, square, rectangle, circle pi, side

Code:

```
import java.util.Scanner;


class AreaOfFig{
public float area(float s){
return (s*s);
}
public float area(float a, float b){
return (a*b);
}
public double area(double r){
return (3.14*r*r);
}
}


public class hFindAreaUsingMethodOverloading{
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
AreaOfFig AreaCal = new AreaOfFig();
int ch = 1;
do{
System.out.print("\n1.Find Area of Square\n2.Find Area of Rectange\n3.Find Area of Square\n4.Exit\nEnter your choice : ");
ch = sc.nextInt();
sc.nextLine();
```

```
switch(ch){
case 1:
System.out.print("Enter the side of Square : ");
float side = sc.nextFloat();
sc.nextLine();
float AreaSquare = AreaCal.area(side);
System.out.printf("Area of Square with side %f is %f. sq.units. \n",side,AreaSquare);
break;
case 2:
System.out.print("Enter the length of Rectangle : ");
float leng = sc.nextFloat();
sc.nextLine();
System.out.print("Enter the breadth of Rectangle : ");
float brea = sc.nextFloat();
sc.nextLine();
float AreaRectangle = AreaCal.area(leng,brea);
System.out.printf("Area of Rectangle with length %f and breadth %f is %f sq.units. \n",leng,
brea,AreaRectangle);
break;
case 3:
System.out.print("Enter the radius of ciricle : ");
double radius = sc.nextDouble();
sc.nextLine();
double AreaCircle = AreaCal.area(radius);
System.out.printf("Area of Circle with radius %f is %f sq.units. \n",radius,AreaCircle);
break;
```

```
case 4:
System.out.println("Exiting the program!");
break;
default:
System.out.println("Invalid Input! Please Try Again!");
}
}
while(ch!=4);
sc.close();
}
}
```

Output:

```
1.Find Area of Square
2.Find Area of Rectange
3.Find Area of Square
4.Exit
Enter your choice : 1
Enter the side of Square : 2
Area of Square with side 2.000000 is 4.000000. sq.units.

1.Find Area of Square
2.Find Area of Rectange
3.Find Area of Square
4.Exit
Enter your choice : 2
Enter the length of Rectangle : 3
Enter the breadth of Rectangle : 6
Area of Rectangle with length 3.000000 and breadth 6.000000 is 18.000000 sq.units.

1.Find Area of Square
2.Find Area of Rectange
3.Find Area of Square
4.Exit
Enter your choice : 3
Enter the radius of ciricle : 3
Area of Circle with radius 3.000000 is 28.260000 sq.units.

1.Find Area of Square
2.Find Area of Rectange
3.Find Area of Square
4.Exit
Enter your choice : 5
Invalid Input! Please Try Again!

1.Find Area of Square
2.Find Area of Rectange
3.Find Area of Square
4.Exit
Enter your choice : 4
Exiting the program!
```

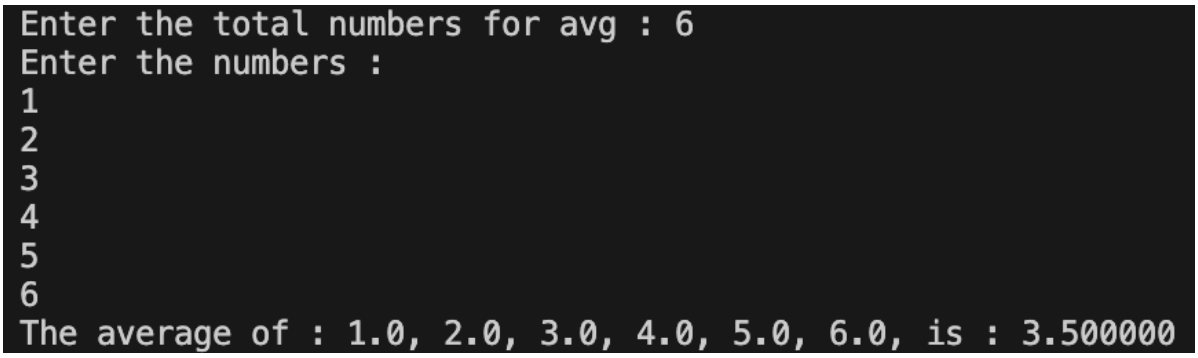
Assignment 09 : WAP to find the average of numbers using variable length arugmuent method

Code :

```
import java.util.Scanner;

public class iAvgOfNumUsingVariableLengMethod{
public static double avg(int totalNum ,double... num){
double sum = 0;
for(double x: num){
sum += x;
}
double res = (sum/totalNum);
return res;
}
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

System.out.print("Enter the total numbers for avg : ");
int t = sc.nextInt();
sc.nextLine();

double arr[];
arr = new double[t];

System.out.println("Enter the numbers : ");
for(int i=0; i<t; i++){
```

```
arr[i] = sc.nextDouble();
sc.nextLine();
}

System.out.print("The average of : ");
for(double x: arr){
System.out.print(x+", ");
}
double avgofall = avg(t,arr);
System.out.printf("is : %f \n",avgofall);
sc.close();
}
}
```

Output:



Assignment 10 : Java Program to demonstrate the working of a banking-system, where we deposit and withdraw amount from our account, Creating an Account class which has deposit() and withdraw() methods

Code:

```
import java.util.Scanner;

class Acc{
private int accNo;
private String accName;
private double accBal;

public void depo(double amt){
accBal += amt;
System.out.println("The account Number "+accNo+" has been deposited an amount of Rs. "+amt
+". The net balance is "+accBal);
}

public void witd(double amt){
if(accBal<=1000 || (amt+1000>accBal)){
System.out.println("Insufficient balance");
}
else{
accBal -= amt;
System.out.println("The account Number "+accNo+" has withdrawed an amount of Rs. "+amt
+". The balance is "+accBal);
}
}

public void checkBalance() {
System.out.println("Your balance is: " + accBal);
}

public void openAcc(String accName, int accNo, double accBal){
this.accName = accName;
this.accNo = accNo;
this.accBal = accBal;
}

@Override
public String toString(){// in this class when you pass object we want this to happen always
return "Account Holder data : [Account name : "+accName+"] [Account number : "+ accNo + "]
[Account Balance : "+accBal+"] ";
```

```
}
}

public class jBank {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);

Acc account = new Acc();
int ch = 1;

String name="";
int anum=1;
double amts=1000;

do{
System.out.print("\nBanking System Menu\n1.Create
Account\n2.Deposit\n3.Withdraw\n4.Check-Balance\n5.Exit\nEnter your choice :");
ch = sc.nextInt();
sc.nextLine();

switch(ch){
case 1:
System.out.println("New Account Menu");
System.out.print("Enter you name : ");
name = sc.nextLine();
System.out.print("Enter you account number : ");
anum = sc.nextInt();
sc.nextLine();
System.out.print("Deposit balance >=1000: ");
amts = sc.nextDouble();
sc.nextLine();
account.openAcc(name,anum,amts);
System.out.print(account);
break;

case 2:
System.out.println("Deposit Menu");
System.out.print("Enter you account number : ");
anum = sc.nextInt();
sc.nextLine();
```

```
System.out.print("Enter Deposit amt : ");
amts = sc.nextDouble();
sc.nextLine();
account.depo(amts);
System.out.print(account);
break;

case 3:
System.out.println("Withdraw Menu");
System.out.print("Enter you account number : ");
anum = sc.nextInt();
sc.nextLine();
System.out.print("Enter Withdrawal amt : ");
amts = sc.nextDouble();
sc.nextLine();
account.witd(amts);
System.out.print(account);
break;

case 4:
System.out.println("Check-Balance Menu");
System.out.print("Enter you account number : ");
anum = sc.nextInt();
sc.nextLine();
account.checkBalance();
System.out.print(account);
break;

case 5:
System.out.print(account);
System.out.println("Exiting the Banking System");
break;

default:
System.out.println("Invalid Input! Please Try Again!");
}
}
while(ch!=5);
sc.close();
}
```

}

Output:

```
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :1
New Account Menu
Enter you name : Utkarsh
Enter you account number : 101
Deposit balance >=1000: 1100
Account Holder data : [Account name : Utkarsh] [Account number : 101] [Account Balance : 1100.0]
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :2
Deposit Menu
Enter you account number : 101
Enter Deposit amt : 1000
The account Number 101 has been deposited an amount of Rs. 1000.0. The net balance is 2100.0
Account Holder data : [Account name : Utkarsh] [Account number : 101] [Account Balance : 2100.0]
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :3
Withdraw Menu
Enter you account number : 101
Enter Withdrawal amt : 100
The account Number 101 has withdrawed an amount of Rs. 100.0. The balance is 2000.0
Account Holder data : [Account name : Utkarsh] [Account number : 101] [Account Balance : 2000.0]
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :4
Check-Balance Menu
Enter you account number : 101
Your balance is: 2000.0
Account Holder data : [Account name : Utkarsh] [Account number : 101] [Account Balance : 2000.0]
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :6
Invalid Input! Please Try Again!
```

```
Banking System Menu
1.Create Account
2.Deposit
3.Withdraw
4.Check-Balance
5.Exit
Enter your choice :5
Account Holder data : [Account name : Utkarsh] [Account number : 101] [Account Balance : 2000.0] Exiting the Banking System
```