**Assignment 4**

**1]ANS:-**

public class Arthimetic {

public static void main(String[] args) {

int a,b;

Scanner sc=new Scanner(System.in);

System.out.println("Enter value for a : ");

a=sc.nextInt();

System.out.println("Enter value for b : ");

b=sc.nextInt();

try {

System.out.println(a/b);

}catch(ArithmeticException e){

System.out.println("Error raised when divided by zero "+ e);

}

}

}

**2]ANS:-**

public class Arthimetic {

public static void main(String[] args) {

int a,b;

Scanner sc=new Scanner(System.in);

System.out.println("Enter value for a : ");

a=sc.nextInt();

System.out.println("Enter value for b : ");

b=sc.nextInt();

try {

System.out.println(a/b);

throw new UnsupportedOperationException("Number not dividable by zero");

}catch(ArithmeticException e){

System.out.println("Error raised when divided by zero "+ e);

throw e;

}

}

}

**3]ANS:-**

public class SavingAccount{

public static void main(String[] args) {

int id[]= {1006,1155,1137};

double amt[]= {500.0,1000.0,5000.0};

Scanner sc = new Scanner(System.in);

char ch;

int withd,depid;

double withdamt,val=0,depamt;

do {

System.out.println("\n \*\*\*Welcom to Savings Account Application\*\*\*");

System.out.println("a. Withdraw \n b. Deposit \n c.Exit ");

System.out.println("Enter your choice: ");

ch = sc.next().charAt(0);

switch (ch) {

case 'a':

System.out.println("\n \*\*\*Withdraw Module\*\*\*");

System.out.println("Enter your ID: ");

withd=sc.nextInt();

for(int i=0;i<id.length;i++) {

if(withd==id[i]) {

System.out.println("Your Balance : "+amt[i]);

System.out.println("Enter your withdrawal amount : ");

withdamt=sc.nextDouble();

if(withdamt <= amt[i] && withdamt > 0) {

System.out.println("Withdraw done Successfully");

val=amt[i]-withdamt;

System.out.println("Your Balance : "+val);

}

try {

if(withdamt > amt[i]) {

throw new Exception("InsufficientBalanceException");

}

if(withdamt < 0) {

throw new Exception("IllegalBankTransactionException");

}

}catch(Exception e){

System.out.println(e.getMessage());

}

break;

}else {

if(i==(id.length-1)) {

System.out.println("Please enter valid ID");

}

}

}

break;

case 'b':

System.out.println("\n \*\*\*Deposit Module\*\*\*");

System.out.println("Enter your ID: ");

depid=sc.nextInt();

for(int i=0;i<id.length;i++) {

if(depid==id[i]) {

System.out.println("Your Balance : "+amt[i]);

System.out.println("Enter your deposit amount : ");

depamt=sc.nextDouble();

System.out.println("Deposit done Successfully");

val=amt[i]+depamt;

System.out.println("Your Balance : "+val);

break;

}else {

if(i==(id.length-1)) {

System.out.println("Please enter valid ID");

}

}

}

break;

case 'c':

System.out.println("See you soon...Have a great day!!");

break;

}

}

while (ch != (int)'c');

}

}