1

//Javaprogramfortheaboveapproach

importjava.util.Scanner;

publicclasscricket{

//Functionthatimplementsthe

//numberguessinggame

publicstaticvoid

guessingNumberGame()

{

//ScannerClass

Scannersc=newScanner(System.*in*);

//Generatethenumbers

intnumber=1+(int)(100

\*Math.*random*());

//GivenKtrials

intK=5;

inti,guess;

System.*out*.println(

"Anumberischosen"

+"between1to100."

+"Guessthenumber"

+"within5trials.");

//IterateoverKTrials

for(i=0;i<K;i++){

System.*out*.println(

"Guessthenumber:");

//Takeinputforguessing

guess=sc.nextInt();

//Ifthenumberisguessed

if(number==guess){

System.*out*.println(

"Congratulations!"

+"Youguessedthenumber.");

break;

}

elseif(number>guess

&&i!=K-1){

System.*out*.println(

"Thenumberis"

+"greaterthan"+guess);

}

elseif(number<guess

&&i!=K-1){

System.*out*.println(

"Thenumberis"

+"lessthan"+guess);

}

}

if(i==K){

System.*out*.println(

"Youhaveexhausted"

+"Ktrials.");

System.*out*.println(

"Thenumberwas"+number);

}

}

//DriverCode

publicstaticvoid

main(Stringarg[])

{

//FunctionCall

*guessingNumberGame*();

}

}

1. ATM interface

//importrequiredclassesandpackages

importjava.util.Scanner;

//createATMExampleclasstoimplementtheATMfunctionality

publicclassAtmInterface

{

//mainmethodstarts

publicstaticvoidmain(Stringargs[])

{

//declareandinitializebalance,withdraw,anddeposit

intbalance=100000,withdraw,deposit;

//createscannerclassobjecttogetchoiceofuser

Scannersc=newScanner(System.*in*);

while(true)

{

System.*out*.println("AutomatedTellerMachine");

System.*out*.println("Choose1forWithdraw");

System.*out*.println("Choose2forDeposit");

System.*out*.println("Choose3forCheckBalance");

System.*out*.println("Choose4forEXIT");

System.*out*.print("Choosetheoperationyouwanttoperform:");

//getchoicefromuser

intchoice=sc.nextInt();

switch(choice)

{

case1:

System.*out*.print("Entermoneytobewithdrawn:");

//getthewithdrawlmoneyfromuser

withdraw=sc.nextInt();

//checkwhetherthebalanceisgreaterthanorequaltothewithdrawalamount

if(balance>=withdraw)

{

//removethewithdrawlamountfromthetotalbalance

balance=balance-withdraw;

System.*out*.println("Pleasecollectyourmoney");

}

else

{

//showcustomerrormessage

System.*out*.println("InsufficientBalance");

}

System.*out*.println("");

break;

case2:

System.*out*.print("Entermoneytobedeposited:");

//getdepositeamountfromteuser

deposit=sc.nextInt();

//addthedepositamounttothetotalbalanace

balance=balance+deposit;

System.*out*.println("YourMoneyhasbeensuccessfullydepsited");

System.*out*.println("");

break;

case3:

//displayingthetotalbalanceoftheuser

System.*out*.println("Balance:"+balance);

System.*out*.println("");

break;

case4:

//exitfromthemenu

System.*exit*(0);

}

}

}

}

3 … student grade

importjava.util.Scanner;

publicclassStudent\_grade\_calculator{

publicstaticvoidmain(String[]args){

Scannerscanner=newScanner(System.*in*);

System.*out*.print("EnterthenumberofGrades:");

intnumGrades=scanner.nextInt();

int[]grades=newint[numGrades];

for(inti=0;i<numGrades;i++){

System.*out*.print("EntertheGrades:"+(i+1)+":");

grades[i]=scanner.nextInt();

}

scanner.close();

inttotal=0;

for(inti=0;i<numGrades;i++){

total+=grades[i];

}

doubleaverage=(double)total/numGrades;

System.*out*.println("AverageGradeis:"+average);

}

}