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(INTERNSHIP PROJECT)

**STUDENT GRADE CALCULATOR**

import java.util.\*;

class Main {

public static void main(String[] args) {

Scanner SC=new Scanner(System.in);

System.out.println("Enter marks in MATHS:");

int m=SC.nextInt();

System.out.println("Enter marks in PHYSICS:");

int p=SC.nextInt();

System.out.println("Enter marks in CHEMISTRY:");

int c=SC.nextInt();

System.out.println("Enter marks in ENGLISH:");

int e=SC.nextInt();

int total=m+p+c+e;

System.out.println("Total sum of marks="+total);

int avgper=(total/4);

String G;

if(avgper<30){

System.out.println(G="F");}

if(avgper<60&&avgper>30){

System.out.println(G="C");}

if(avgper<80&&avgper>60){

System.out.println(G="B");}

if(avgper>80){

System.out.println(G="A");}

}

}

**OUTPUT:**

Enter marks in MATHS:

90

Enter marks in PHYSICS:

09

Enter marks in CHEMISTRY:

89

Enter marks in ENGLISH:

99

Total sum of marks=287

B

**NUMBER GAME**

import java.util.\*;

class Main {

public static void main(String args[])

{

Scanner SC=new Scanner(System.in);

Random random=new Random();

int x=random.nextInt(100)+1;

System.out.println("Enter a guess to compare:");

int g=SC.nextInt();

if(g==x)

System.out.println("Right Guess");

else{

if(g>x)

System.out.println("Too Large Guess");

else

System.out.println("Too Small Guess");

System.out.println("Go for another attempt");

}

System.out.println("Number was: "+x);

}

}

**OUTPUT:**

Enter a guess to compare:

78

Too Large Guess

Go for another attempt

Number was: 13

**ATM INTERFACE**

import java.util.Scanner;

class BankAccount {

private double balance;

public BankAccount(double initialBalance) {

if (initialBalance >= 0) {

balance = initialBalance;

} else {

balance = 0;

System.out.println("Initial balance cannot be negative. Setting balance to 0.");

}

}

public double getBalance() {

return balance;

}

public void deposit(double amount) {

if (amount > 0) {

balance += amount;

System.out.println("Deposited: $" + amount);

} else {

System.out.println("Deposit amount must be positive.");

}

}

public boolean withdraw(double amount) {

if (amount > 0 && amount <= balance) {

balance -= amount;

System.out.println("Withdrawn: $" + amount);

return true;

} else if (amount > balance) {

System.out.println("Insufficient balance for withdrawal.");

return false;

} else {

System.out.println("Withdrawal amount must be positive.");

return false;

}

}

}

class ATM {

private BankAccount account;

private Scanner scanner;

public ATM(BankAccount account) {

this.account = account;

this.scanner = new Scanner(System.in);

}

public void displayMenu() {

System.out.println("\nATM Menu:");

System.out.println("1. Check Balance");

System.out.println("2. Deposit");

System.out.println("3. Withdraw");

System.out.println("4. Exit");

}

public void run() {

int choice;

do {

displayMenu();

System.out.print("Choose an option: ");

choice = scanner.nextInt();

switch (choice) {

case 1:

checkBalance();

break;

case 2:

deposit();

break;

case 3:

withdraw();

break;

case 4:

System.out.println("Thank you for using the ATM. Goodbye!");

break;

default:

System.out.println("Invalid option. Please try again.");

}

} while (choice != 4);

}

private void checkBalance() {

System.out.println("Your current balance is: $" + account.getBalance());

}

private void deposit() {

System.out.print("Enter deposit amount: $");

double amount = scanner.nextDouble();

account.deposit(amount);

}

private void withdraw() {

System.out.print("Enter withdrawal amount: $");

double amount = scanner.nextDouble();

if (account.withdraw(amount)) {

System.out.println("Transaction successful.");

} else {

System.out.println("Transaction failed.");

}

}

}

public class ATMSimulation {

public static void main(String[] args) {

// Create a bank account with an initial balance

BankAccount account = new BankAccount(1000.00);

// Create an ATM object and link it to the bank account

ATM atm = new ATM(account);

// Start the ATM machine

atm.run();

}

}

**OUTPUT:**

ATM Menu:

1. Check Balance

2. Deposit

3. Withdraw

4. Exit

Choose an option: 1

Your current balance is: $1000.0

ATM Menu:

1. Check Balance

2. Deposit

3. Withdraw

4. Exit

Choose an option: 2

Enter deposit amount: $200

Deposited: $200.0

ATM Menu:

1. Check Balance

2. Deposit

3. Withdraw

4. Exit

Choose an option: 3

Enter withdrawal amount: $500

Withdrawn: $500.0

Transaction successful.

ATM Menu:

1. Check Balance

2. Deposit

3. Withdraw

4. Exit

Choose an option: 4

Thank you for using the ATM. Goodbye!