**Assignment – C# (Banking System)**

1)

using System;

namespace Task1

{

class Program

{

static void Main(string[] args)

{

int c, income;

Console.WriteLine("Enter the Credit Score and Income:");

c=Convert.ToInt32(Console.ReadLine());

income=Convert.ToInt32(Console.ReadLine());

if (c>700 && income<50000)

{

Console.WriteLine("You are eligible for loan.");

}

else

{

Console.WriteLine("You are not eligible for loan.");

}

}

}

}

2)

using System;

namespace Task2

{

public class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Current Balance and Amount to withdraw or deposit");

Console.WriteLine("1. Check Balance");

Console.WriteLine("2. Withdraw");

Console.WriteLine("3. Deposit");

Console.WriteLine("Choose one of the options");

int bal=Convert.ToInt32(Console.ReadLine());

int amt=Convert.ToInt32(Console.ReadLine());

int opt=Convert.ToInt32(Console.ReadLine());

switch(opt)

{

case 1:

Console.WriteLine("The current balance is:"+ bal);

break;

case 2:

if (bal>amt)

{

if (amt%500==0 || amt%100==0)

{

Console.WriteLine("Amount Withdrawal Success!");

}

else

{

Console.WriteLine("Amount must be in multiples of 100 or 500");

}

}

else

{

Console.WriteLine("Insufficient Balance. Withdrawal Failure.");

}

break;

case 3:

Console.WriteLine("Successfully Deposited.");

break;

default:

Console.WriteLine("Incorrect Option. Exited");

break;

}

}

}

}

3)

using System;

namespace Task3

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the number of Savings Account");

int n=Convert.ToInt32(Console.ReadLine());

for (int i=0; i<n; i++)

{

Console.WriteLine("Enter Initial Balance, Rate of Interest and Number of Years");

double bal=Convert.ToDouble(Console.ReadLine());

double r=Convert.ToDouble(Console.ReadLine());

double y=Convert.ToDouble(Console.ReadLine());

double f\_bal= bal \* Math.Pow((1+r/100),y);

Console.WriteLine("The future balance is:"+f\_bal);

}

}

}

}

4)

using System;

namespace Task4

{

class Program

{

static void Main(string[] args)

{

string[] account={"15121", "15122", "15123", "15124", "15136"};

bool valid=false;

while(!valid)

{

Console.WriteLine("Enter the account number and balance");

string acc=(Console.ReadLine());

double balance=Convert.ToDouble(Console.ReadLine());

foreach(string i in account)

{

if (acc==i)

{

valid=true;

Console.WriteLine("Account Balance:"+balance);

break;

}

else

{

valid=false;

}

}

}

}

}

}

5)

using System;

namespace Task5

{

class program

{

static void Main(string[] args)

{

Console.WriteLine("Create a password:");

string password=Console.ReadLine();

int l=password.Length;

if (l<8)

{

Console.WriteLine("Create a password with atleast 8 charaters.");

}

bool val=false;

foreach(char i in password)

{

if (Char.IsUpper(i))

{

val=true;

break;

}

}

if (!val)

{

Console.WriteLine("The password must contain atleast 1 uppercase character.");

}

bool val2=false;

foreach(char i in password)

{

if (Char.IsDigit(i))

{

val2=true;

break;

}

}

if (!val2)

{

Console.WriteLine("The password must contain atleast 1 digit.");

}

if (l>=8 && (val && val2))

{

Console.WriteLine("Password accepted");

}

}

}

}

6)

using System;

namespace Task6

{

class program

{

static void Main(string[] args)

{

string[] history=new string[20];

double balance;

Console.WriteLine("Enter balance:");

balance=Convert.ToDouble(Console.ReadLine());

bool valid=true;

int index=0;

do{

Console.WriteLine("1. Withdrawal");

Console.WriteLine("2. Deposit");

Console.WriteLine("3. Exit");

Console.WriteLine("Enter options 1 or 2 or 3");

int opt=Convert.ToInt32(Console.ReadLine());

switch(opt)

{

case 1:

Console.WriteLine("Enter the amount to withdraw:");

double amount=Convert.ToDouble(Console.ReadLine());

if (amount>balance)

{

Console.WriteLine("Insufficient Funds");

}

else

{

balance-=amount;

history[index++]=$"Withdrawn Amount: {amount}";

}

break;

case 2:

Console.WriteLine("Enter the amount to be deposited:");

double amount2=Convert.ToDouble(Console.ReadLine());

balance+=amount2;

history[index++]=$"Deposited Amount: {amount2}";

break;

case 3:

valid=false;

Console.WriteLine("Balance Amount:"+balance);

foreach(string i in history)

{

Console.WriteLine(i);

}

break;

}

}while(valid);

}

}

}