OOP Lab – 01

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Q1.

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#include<iostream>

using namespace std;

int main(){

int ch,amt,bal=0;

cout<<"Welcome to AL Habib Banking System"<<endl;

do{

cout<<"\n\t1. Deposit fund\n\t2. Withdraw fund\n\t3. Exit"<<endl;

cout<<"Enter choice: ";

cin>>ch;

switch(ch){

case 1:

{

cout<<"Enter amount to deposit: ";

cin>>amt;

bal+=amt;

cout<<"\nDeposit successful. New balance is: "<<bal<<endl;

break;

}

case 2:

{

cout<<"Enter amount to withdraw: ";

cin>>amt;

if(bal<amt)

{

cout<<"\nNOT ENOUGH BALANCE!!PlEASE DEPOSIT FIRST\n";

}

else{

bal-=amt;

cout<<"\nWithdraw successful. New balance is: "<<bal<<endl;

}

break;

}

case 3:

{

return 0;

}

default:{

cout<<"\n\tPlease enter valid option.";

}

}

}

while(ch!=3);

return 0;

}

Q2.

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#include <iostream>

#include<math.h>

using namespace std;

int main()

{

float wgt,hgt,bmi;

cout<<"Enter weight in pounds: ";

cin>>wgt;

cout<<"Enter height in inches: ";

cin>>hgt;

bmi = (wgt/(pow(hgt,2)))\*703;

cout<<"\n\tFor user: \nWeight: "<<wgt<<"\nHeight: "<<hgt<<"\n\tBodyMassIndex: "<<bmi<<endl;

}

Q3.

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#include <iostream>

using namespace std;

void find\_two\_largest(int num[], int size, int \*largest, int \*second\_largest){

int j,k,t;

for(j=0;j<size;j++)

{

for(k=0;k<size-1;k++){

if(num[k]>num[k+1])

{

t=num[k+1];

num[k+1]=num[k];

num[k]=t;

}

}

}

\*largest = num[size-1];

\*second\_largest = num[size-2];

}

int main()

{

int l,i;

cout<<"Enter length of array: ";

cin>>l;

int arr[l];

int greatest,sec\_greatest;

cout<<"Enter values :\n";

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

cin>>arr[i];

}

find\_two\_largest(arr,l,&greatest,&sec\_greatest);

cout<<"\nGreatest is: "<<greatest<<"\n2nd-Greatest is: "<<sec\_greatest;

return 0;

}

Q4.

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#include <iostream>

using namespace std;

int main()

{

int num[10],j;

cout<<"Please enter values: "<<endl;

for(j=0;j<10;j++)

{

cin>>num[j];

}

cout<<"\nBefore replacing: \n";

for(j=0;j<10;j++)

cout<<num[j]<<" ";

cout<<"\nAfter replacing: \n";

for(j=0;j<10;j++)

{

if(num[j]%2==1)

{

num[j]=0;

}

else

{

num[j]=1;

}

}

for(j=0;j<10;j++)

cout<<num[j]<<" ";

return 0;

}

Q5.

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#include <iostream>

using namespace std;

int main()

{

int a[3][3], b[3][3],x[3][3]={0};

int i,j,l;

cout<<"\tInput elements for matrice A:"<<endl;

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

cin>>a[i][j];

}

cout<<"\n\n\tInput elements for matrice B:"<<endl;

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

cin>>b[i][j];

}

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

{

x[i][j]+=a[i][j]-b[i][j];

}

}

cout<<"\n\nAfter subtraction: \nAnswer: "<<endl;

for(i=0;i<3;i++)

{

for(j=0;j<3;j++)

cout<<" "<<x[i][j]<<" ";

cout<<endl;

}

return 0;

}