

Sreenidhi University

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Batch: 2024-28

Degree: B.Tech - CSE

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2024_28_CPP Programming Lab_CSE A

2028_SUH_CPP_COD_Cycle 5

Attempt : 1

Total Mark : 30

Marks Obtained : 30

Section 1 : Coding

1. Problem Statement

Write a program in the menu driven style to perform the operations +, -, *, /, % between two given integers.

Answer

// to perform the operations between 2 given integers

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int choice;
```

```
    while(1)
```

```
    {
```

```
        cin>>choice;
```

```
        if((choice>=1)&&(choice<=5))
```

```

{
    int a,b;
    cin>>a>>b;

    switch(choice){
        case 1:
            cout<<"Result:"<<a<<"+"<<b<<"="<<(a+b)<<endl;
            break;
        case 2:
            cout<<"Result:"<<a<<"-"<<b<<"="<<(a-b)<<endl;
            break;
        case 3:
            cout<<"Result:"<<a<<"*"<<b<<"="<<(a*b)<<endl;
            break;
        case 4:
            if(b==0)
            {
                cout<<"Error:Division by zero is not allowed"<<endl;
            }
            else {
                cout<<"Result:"<<a<<"/"<<b<<"="<<(a/b)<<endl;
            }
            break;
        case 5:
            if(b==0)
            {
                cout<<"Error:Modulus by zero is not allowed"<<endl;
            }
            else{
                cout<<"Result:"<<a<<"%"<<b<<"="<<(a%b)<<endl;
            }
            break;
    }
}

else if(choice==6){
    cout<<"Exiting program...";
    return 0;
}
}
return 0;
}

```

Status : Correct

Marks : 10/10

2. Problem Statement

Write a program to find the largest and the least of some numbers given by the user.

Answer

```
#include<iostream>
#include<iomanip>
using namespace std;
int main(){
    int i,n,num,largest,smallest;
    cin>>n;
    cin>>num;
    largest=smallest=num;
    for(int i=1; i<n;i++){
        cin>>num;
        if (num>largest){
            largest=num;
        }
        else if (num<smallest){
            smallest=num;
        }
    }
    cout<<largest<<endl;
    cout<<smallest<<endl;
    return 0;
}
```

Status : Correct

Marks : 10/10

3. Problem Statement

Write a program to find the sum of the digits of a positive integer.

Answer

```
// You are using GCC
#include<iostream>
#include<iomanip>
#include<cmath>
using namespace std;
int main(){
    int n,sum=0;
    cin>>n;
    while(n>0){
        sum+= n%10;
        n/=10;
    }
    cout<<sum<<endl;
    return 0;
}
```

Status : Correct

Marks : 10/10