Assignment 30

1. Write a C++ program to demonstrate the use of try, catch block with the argument as an

integer and string using multiple catch blocks.

Output:

#include<iostream>

using namespace std;

void test\_try(int num)

{

    try

    {

       if(num>=0 && num<=9)

         throw num;

      else

          throw " the number is not single digit ...";

    }

    catch(int n)

    {

        cout<<"the number is a single digit ."<<endl;

    }

    catch(const char \*msg)

    {

        cout<<msg<<endl;

    }

}

int main()

{

    test\_try(9);

    test\_try(11);

    return 0;

}

cd "c:\Users\tusha\Documents\coadind\assigment\_30.cpp\" ; if ($?) { g++ problem01.cpp -o problem01 } ; if ($?) { .\problem01 }

the number is a single digit .

the number is not single digit ...

PS C:\Users\tusha\Documents\coadind\assigment\_30.cpp>

3. Write a C++ program to perform arithmetic operations on two numbers and throw an

exception if the dividend is zero or does not contain an operator.

#include<iostream>

using namespace std;

int main()

{

    int a,b,ans;

    char ch;

    try

    {

        cout<<"enter teh first number   : ";

        cin>>a;

        if(a==0)

            throw "\n invalid number ....change it";

        cout<<"\n enter the operator    : ";

        cin>>ch;

        if(ch!='+'&& ch!='-' && ch!='\*' && ch!='/' )

        {

            throw "\n invalid operator";

        }

        cout<<"\n enter the second number   : ";

        cin>>b;

        cout<<"--------------------------------------"<<endl;

    }

    catch(const char \*msg)

    {

        cout<<msg<<endl;

    }

    switch (ch)

    {

    case '+':cout<<"the addtion is   : ";

            cout<<a+b;

            break;

    case '-':cout<<"the subtraction  is   : ";

            cout<<a-b ;

            break;

    case '\*':cout<<"the addtion is   : ";

            cout<<a\*b;

            break;

    case '/': if(b==0)

            {

                cout<<"b must be non zero value."<<endl;

                break;

            }

            cout<<"the addtion is   : ";

            cout<<a/b;

            break;

    default:

        break;

    }

    return 0;

}

Output:

enter teh first number : 10

enter the operator : +

enter the second number : 5

--------------------------------------

the addtion is : 15

PS C:\Users\tusha\Documents\coadind\assigment\_30.cpp>