Practical No: 08

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Title:

Write a program to demonstrate Exception Handling concept.

Source Code for Exception Handling (Single Catch function):

```cpp
#include <iostream>
using namespace std;

int main() {
  try {
    int age = 15;
    if (age >= 18) {
      cout << "Access granted - you are old enough.";
    } else {
      throw (age);
    }
  }
  catch (int myNum) {
    cout << "Access denied - You must be at least 18 years
old.\n";
    cout << "Age is: " << myNum;
  }
  return 0;
}
```

Output :

```
Access denied - You must
be at least 18 years
old.Age is: 15
```

Source Code for Exception Handling (Multiple Catch function):

```cpp
#include<iostream>
#include<string>
using namespace std;
void emp(int a , float b)
{

    try
    {
        if(a<18 && b>5)
        {
            throw a;
        }
        else if (a>=18 && b<5)
        {
            throw b;
        }
        else
        {
            cout<<"YOU ARE ELIGIBLE "<<endl;
        }

    }
    catch(int a)
    {
        cout<<"Sorry !You are below 18"<<endl;
    }
```

```cpp
    catch(float b)
    {
        cout<<"SORRY !,YOU ARE NOT ELIGIBLE "<<endl;
    }
}

int main()
{
    int age;
    float exper;
    string name;
    cout<<"---------------Hiring Employee--------------"<<endl;
    cout<<"Enter your name :"<<endl;
    cin>>name;
    cout<<"Youe name is :"<<name<<endl;
    cout<<"Enter your age :"<<endl;
    cin>>age;
    cout<<"Enter your Experience IN YEARS :"<<endl;
    cin>>exper;
    emp(age,exper);
    return 0;
}
```

Output :

Enter your name :
pradip
Youe name is :pradip
Enter your age :
19
Enter your Experience IN YEARS :
6
YOU ARE ELIGIBLE

End