

Institute of Computer Technology
B. Tech Computer Science and Engineering
Subject: ESFP-II (2CSE203)
PRACTICAL-EXAM

1. Implement a program in C++ to access private member through friend modifier.

CODE:

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

class PracExam
{
private:
    int thread;
    int core;
public:
    void getPCdetails(){
        cout<<"Enter No. Of cores in processor: ";
        cin>>core;
        cout<<"Enter No. Of threads in processor: ";
        cin>>thread;
    }
    friend void showPC(PracExam);
};

void showPC(PracExam P){
    cout<<"\nNo. of cores are "<<P.core<<endl;
    cout<<"No. of threads are "<<P.thread<<endl;
}

int main(){
    PracExam obj;
    obj.getPCdetails();
    showPC(obj);
    return 0;
}
```

OUTPUT:

```
PS C:\Users\admin> cd "c:\Users\admin\Google Drive\B-Tech\SEM-2\Exams (SEM-2)\S2_Midsem-1\S2M1_Practicals\ESFP-2 (PMS-1)" ;
if ($?) { g++ code.cpp -o code } ; if ($?) { .\code }
Enter No. Of cores in processor: 6
Enter No. Of threads in processor: 12

No. of cores are 6
No. of threads are 12
PS C:\Users\admin\Google Drive\B-Tech\SEM-2\Exams (SEM-2)\S2_Midsem-1\S2M1_Practicals\ESFP-2 (PMS-1)> |
```

2. Implement a program in C++ to implement multilevel inheritance for classes India, Gujrat and Gandhinagar.

CODE:

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

class India
{
public:
    void india(){
        cout<<"I live in INDIA"<<endl;
    }
};

class Gujarat:public India{
public:
    void Guj(){
        cout<<"I live in GUJARAT"<<endl;
    }
};

class Gandhinagar:public Gujarat{
public:
    void gandhinagar(){
        cout<<"I live in GANDHINAGAR"<<endl;
    }
};

int main(){
    Gandhinagar G;
    G.india();
    G.Guj();
    G.gandhinagar();
    return 0;
}
```

OUTPUT:

```
PS C:\Users\admin> cd "c:\Users\admin\Google Drive\B-Tech\SEM-2\Exams (SEM-2)\S2_Midsem-1\S2M1_Practicals\ESFP-2 (PMS-1)\";
if ($?) { g++ code.cpp -o code } ; if ($?) { .\code }
I live in INDIA
I live in GUJARAT
I live in GANDHINAGAR
PS C:\Users\admin\Google Drive\B-Tech\SEM-2\Exams (SEM-2)\S2_Midsem-1\S2M1_Practicals\ESFP-2 (PMS-1)> |
```