



DINESHRAM A-2212046@nec



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Completed Programs

Student - new Operator Overloading (Id-13862)

The program must accept the **name**, **registration number** and **department** (branch) of a student and print the details as shown in the Example Input/Output section. Please overload the **new** operator in the class **Student** so that the program runs successfully.

Example Input/Output 1:

Input:

Mr.Abcd

2020CSE112

CSE

Output:

Name:Mr.Abcd

RegistrationNumber:2020CSE112

Department:CSE

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DINESHRAM A

2212046

CSE

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

```
class Student
{
    string name;
    string regnNumber;
    string department;
public:
    Student()
    {
    }
    Student(string name,string regnNumber,string department)
    {
        this->name=name;
```

```
        this->regnNumber=regnNumber;
        this->department=department;
    }

    void* operator new(size_t size)
    {
void *p::operator new(size);
return p;
    }//end of void* operator new(size_t size)

    void printDetails()
    {
        cout << "Name:"<<this->name<<endl;
        cout << "RegistrationNumber:"<<this->regnNumber<<endl;
        cout << "Department:"<<this->department<<endl;
    }
};

int main()
{
    string studentName, regnNum, dept;
    cin >> studentName >> regnNum >> dept;
    Student *stud=new Student(studentName, regnNum, dept);
    stud->printDetails();
    return 0;
}
```

Student Age - new Operator Overloading (Id-13863)

The program must accept the **name**, **registration number** and **department** (branch) of a student and print the details as shown in the Example Input/Output section. The program must set the age of all students as 20. Please overload the **new** operator in the class **Student** so that the program runs successfully.

Example Input/Output 1:

Input:

Mr.Abcd

2020CSE112

CSE

Output:

Name:Mr.Abcd

RegistrationNumber:2020CSE112

Department:CSE

Age:20

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CSE

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

```
class Student
{
    string name;
    string regnNumber;
    string department;
    int age;
public:
    Student()
    {
    }
    Student(string name,string regnNumber,string department)
    {
        this->name=name;
        this->regnNumber=regnNumber;
        this->department=department;
    }

    void* operator new(size_t size)
    {
void *p::operator new(size);
        ((Student *)p)->age=20;
        return p;

    }//end of void* operator new(size_t size)

    void printDetails()
    {
        cout << "Name:"<<this->name<<endl;
        cout << "RegistrationNumber:"<<this->regnNumber<<endl;
        cout << "Department:"<<this->department<<endl;
        cout << "Age:"<<this->age<<endl;
    }
};

int main()
{
    string studentName,regnNum,dept;
    cin >> studentName >> regnNum >> dept;
    Student *stud=new Student(studentName,regnNum,dept);
    stud->printDetails();
    return 0;
}
```

Student - delete Operator Overloading (Id-13864)

The program must accept the **name**, **registration number** and **department** (branch) of a student and print the details as shown in the Example Input/Output section. Please overload the **delete** operator in the class **Student** so that the program runs successfully.

Example Input/Output 1:

Input:

Mr.Abcd
2020CSE112
CSE

Output:

Name:Mr.Abcd

RegistrationNumber:2020CSE112

Department:CSE

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DINESHRAM A

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CSE

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

class Student
{
    string name;
    string regnNumber;
    string department;
public:
    Student()
    {
    }
    Student(string name,string regnNumber,string department)
    {
        this->name=name;
        this->regnNumber=regnNumber;
        this->department=department;
    }

    void printDetails()
    {
        cout << "Name:"<<this->name<<endl;
        cout << "RegistrationNumber:"<<this->regnNumber<<endl;
        cout << "Department:"<<this->department<<endl;
    }

    void* operator new(size_t size)
    {
        void *ptr=::new Student();
        return ptr;
    }

    void operator delete(void* ptr)
    {
        ((Student *)ptr)->printDetails();
        free(ptr);
    } //end of void operator delete(void* ptr)
};

int main()
{
```

```
string studentName, regnNum, dept;  
cin >> studentName >> regnNum >> dept;  
Student *stud=new Student(studentName, regnNum, dept);  
delete stud;  
return 0;  
}
```