Practical No: 06

Name: Warkhade Pradip Rajendra
Class: SY IT
Roll no : 68

Title:
Write a program to demonstrate Memory allocation in C++.

Source Code :

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

class record
{
    string name,cname,branch;
    string prnno;
    int pkg;
    public:
    void getdata()
    {
        cout<<"Enter the name of the student :";
        cin>>name;
        cout<<"Enter the recruiter name :";
        cin>>cname;
        cout<<"Enter the branch of the student :";
        cin>>branch;
        cout<<"Enter the PRN of the student :";
        cin>>prnno;
        cout<<"Enter the package of the student :";
        cin>>pkg;
        cout<<"\n\n";
    }
    void display()
    {
```

```cpp
        cout<<name<<"\t\t"<<cname<<"\t\t\t"<<branch<<"\t\t"<<pr
nno<<"\t\t"<<pkg<<endl;
    }
};
int main()
{
    int i,n;
    cout<<"How many records do you want to insert ?";
    cin>>n;
    record *ptr=new record[n];
    for(i=0;i<n;i++)
    {
        cout<<"\n"<<"Enter the data of student :"<<i+1<<endl;
        ptr->getdata();
        ptr++;
    }
    for(i=0;i<n;i++)
    {
        ptr--;
    }
    cout<<"-------------------------Displaying the data--------
-------------"<<endl;
    cout<<"NAME"<<"\t\t"<<"COMPANY
NAME"<<"\t\t"<<"BRANCH"<<"\t\t"<<"PRN NO
"<<"\t\t\t"<<"PACKAGE"<<endl;
    for(i=0;i<n;i++)
    {
        ptr->display();
        ptr++;
    }
    cout<<"\n\n";
    int size = sizeof(*ptr);
    cout<<"Size of pointer is "<<ptr<<endl;
    /*delete []ptr;
    cout<<"Memory after deletion :";
    for(i=0;i<n;i++)
```

```
    {
        ptr->display();
    }*/
    return 0;
}
```

Output :

How many records do you want to insert ?2

Enter the data of student :1
Enter the name of the student :pradip
Enter the recruiter name :tcs
Enter the branch of the student :it
Enter the PRN of the student :uit21m1069
Enter the package of the student :15

Enter the data of student :2
Enter the name of the student :akshay
Enter the recruiter name :google
Enter the branch of the student :it
Enter the PRN of the student :uit21m1069
Enter the package of the student :14

-------------------------Displaying the data---------------------

NAME	COMPANY NAME	BRANCH	PRN NO	PACKAGE
pradip	tcs	it	uit21m1069	15
akshay	google	it	uit21m1069	14

Size of pointer is 0x1036fbc