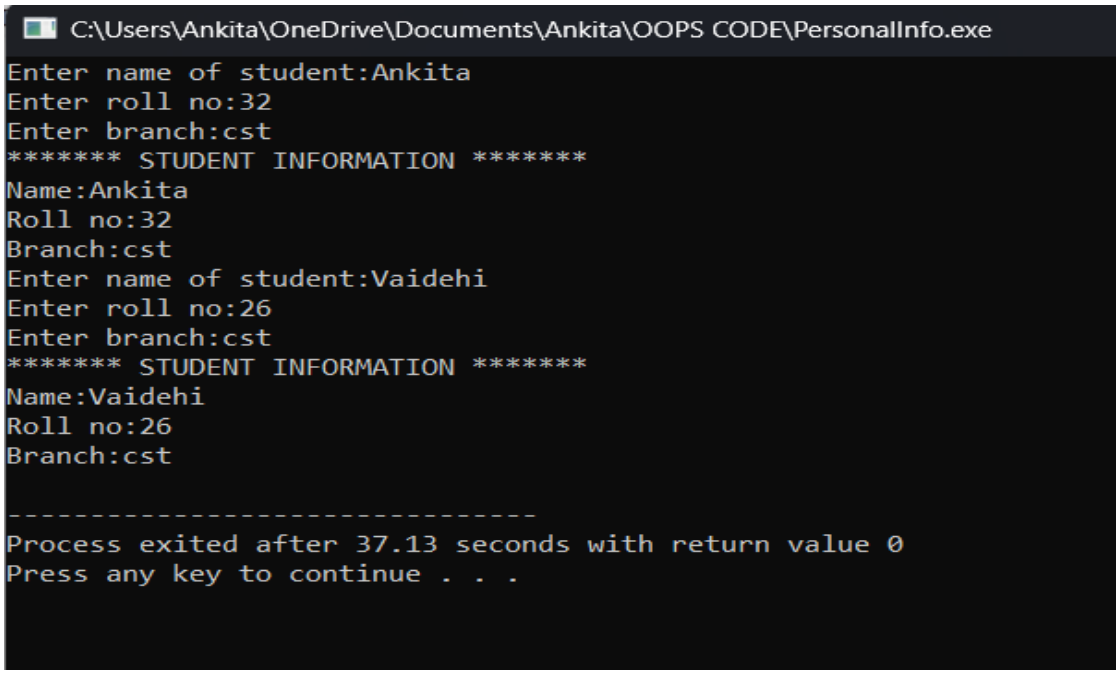
Experiment No.1

Input:

```
#include<iostream>
using namespace std;
class student
{
   private:
         string nm,branch;
      int rn;
   public:
      void getdata()
      {
         cout<<"Enter name of student:";
         cin>>nm;
         cout<<"Enter roll no:";
         cin>>rn;
         cout<<"Enter branch:";
         cin>>branch;
      }
      void showdata()
      {
         cout<<"******* STUDENT INFORMATION *******"<<endl;
         cout<<"Name:"<<nm<<endl;
         cout<<"Roll no:"<<rn<<endl;
         cout<<"Branch:"<<branch<<endl;
      }
};
int main()
```

```
{
   student s,t;
   s.getdata();
   s.showdata();
   t.getdata();
   t.showdata();
   return 0;
}
```

Output:

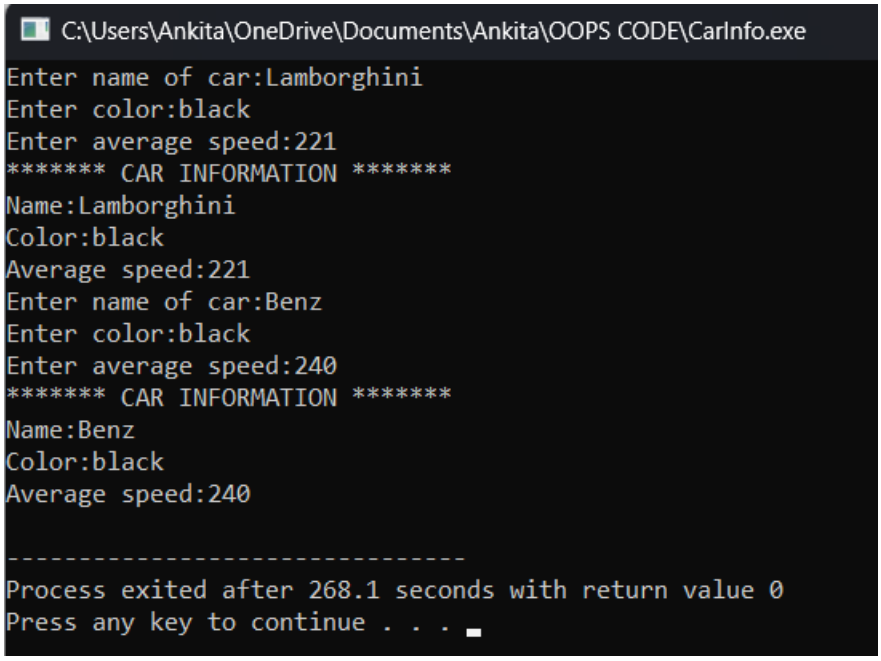


Input:

```
#include<iostream>
using namespace std;
class car
{
   private:
      string nm,color;
```

```
    int avg;
  public:
  void getdata()
  {
    cout<<"Enter name of car:";
    cin>>nm;
    cout<<"Enter color:";
    cin>>color;
    cout<<"Enter average speed:";
    cin>>avg;
  }
  void showdata()
  {
    cout<<"******* CAR INFORMATION *******"<<endl;
    cout<<"Name:"<<nm<<endl;
    cout<<"Color:"<<color<<endl;
    cout<<"Average speed:"<<avg<<endl;
  }
};
int main()
{
  car c,t;
  c.getdata();
  c.showdata();
  t.getdata();
  t.showdata();
  return 0;
}
```

Output:

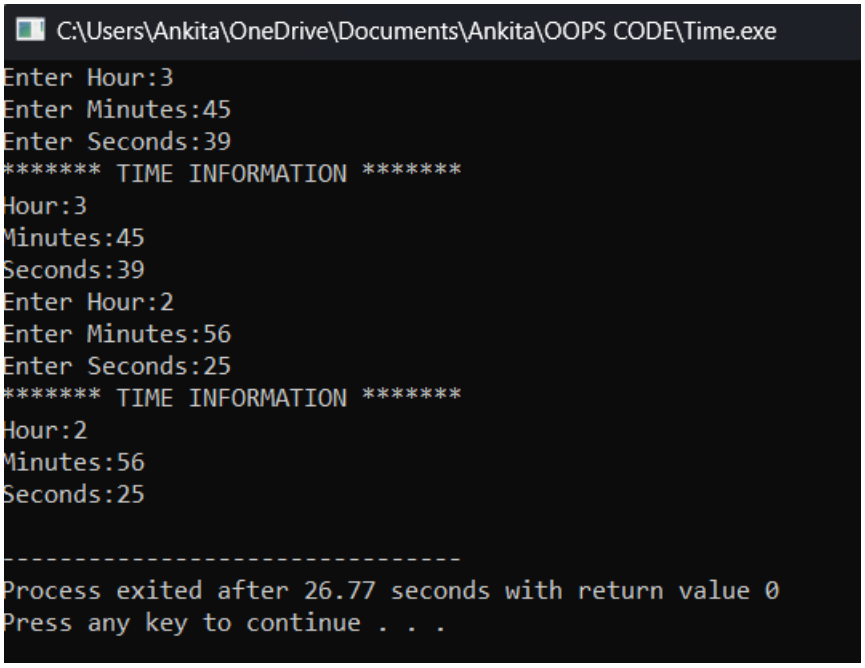


Input:

```
#include<iostream>
using namespace std;
class time
{
   private:
      int m,h,s;
   public:
   void getdata()
   {
      cout<<"Enter Hour:";
      cin>>h;
      cout<<"Enter Minutes:";
      cin>>m;
      cout<<"Enter Seconds:";
      cin>>s;
   }
```

```
    void showdata()
    {
        cout<<"******* TIME INFORMATION *******"<<endl;
        cout<<"Hour:"<<h<<endl;
        cout<<"Minutes:"<<m<<endl;
        cout<<"Seconds:"<<s<<endl;
    }
};
int main()
{
    time t,d;
    t.getdata();
    t.showdata();
    d.getdata();
    d.showdata();
    return 0;
}
```

Output:

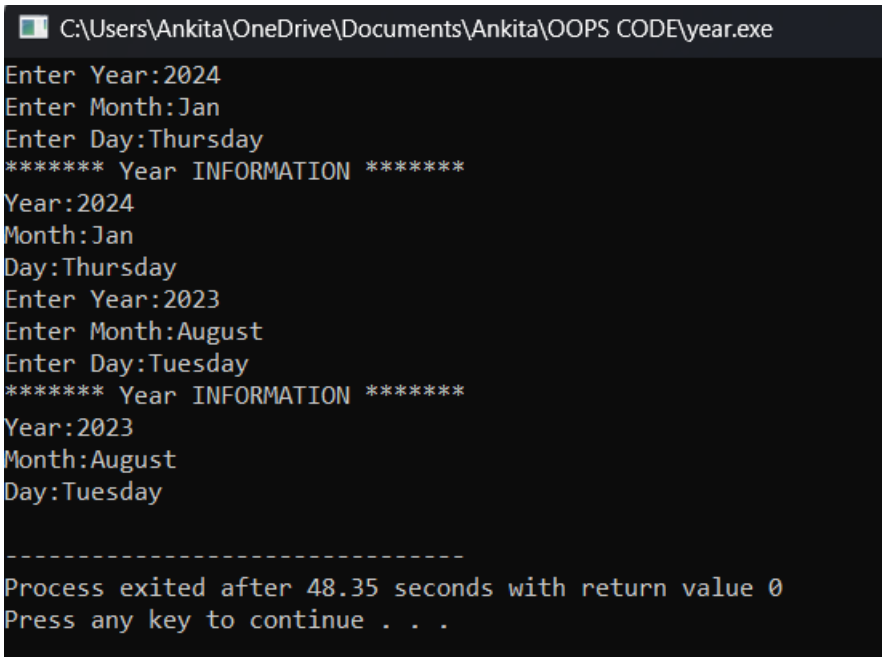


Input:

```
#include<iostream>
using namespace std;
class year
{
   private:
      int y;
      string d, m;
   public:
   void getdata()
   {
      cout<<"Enter Year:";
      cin>>y;
      cout<<"Enter Month:";
      cin>>m;
      cout<<"Enter Day:";
      cin>>d;
   }
   void showdata()
   {
      cout<<"******* Year INFORMATION *******"<<endl;
      cout<<"Year:"<<y<<endl;
      cout<<"Month:"<<m<<endl;
      cout<<"Day:"<<d<<endl;
   }
};
int main()
{
```

```
    year y,d;
    y.getdata();
    y.showdata();
    d.getdata();
    d.showdata();
    return 0;
}
```

Output:



Input:

```
#include<iostream>
using namespace std;
class matrix
{
    private :
       int i,j,r,c,m1[10][10],m2[10][10],m3[10][10];
    public :
    void getdata()
```

```
{
    cout<<"Enter the number of rows:";
    cin>>r;
    cout<<"Enter the number of coloumns :";
    cin>>c;
    cout<<"Enter the elements of 1st matrix :";
    for(i=0;i<r;i++)
    {
        for(j=0;j<c;j++)
        {
            cin>>m1[i][j];
        }
    }
    cout<<"Enter the elements of 2nd matrix :";
    for(i=0;i<r;i++)
    {
        for(j=0;j<c;j++)
        {
            cin>>m2[i][j];
        }
    }
    for(i=0;i<r;i++)
    {
        for(j=0;j<c;j++)
        {
            m3[i][j]=m1[i][j]+m2[i][j];
        }
        cout<<"\n";
    }
```

```
}
void showdata()
{
   cout<<"\n The 1st matrix is:\n";
   for(i=0;i<r;i++)
   {
      for(j=0;j<c;j++)
      {
         cout<<"\t"<<m1[i][j];
      }
      cout<<"\n";
   }
   cout<<" The 2nd matrix is:\n";
   for(i=0;i<r;i++)
   {
      for(j=0;j<c;j++)
      {
         cout<<"\t"<<m2[i][j];
      }
      cout<<"\n";
   }
   cout<<"The addition of 2 matices is :\n";
   for(i=0;i<r;i++)
   {
      for(j=0;j<c;j++)
      {
         cout<<"\t"<<m3[i][j];
      }
      cout<<"\n";
```

```
    }
  }
};
int main()
{
  matrix m;
  m.getdata();
  m.showdata();
  return 0;
}
```

Output: