

## EXPERIMENT 1

- ① Write a program to declare a class student having data members as roll no. and name. Accept and display data for one object.
- ② Write a program to declare a class book having data members as book name, price, no. of pages. Accept this data for 2 objects and display the name of book having greater price.
- ③ Program to declare a class time. Accept the time in HH:MM:SS and convert it into total seconds and display time.

①

```
#include <iostream>
```

```
using namespace std;
```

```
class student
```

```
{
```

```
    int roll;
```

```
    string name;
```

```
public:
```

```
    void accept()
```

```
{
```

```
        cout << "enter value of roll & name";
```

```
        cin >> roll >> name;
```

```
}
```

```
    void display()
```

```
{
```

```
    cout << "Roll: " << roll & name;
```

```
    cout << "Roll: " << roll, Name: " name << endl;
```

```
int main ()  
{  
    Book b1, b2;  
    b1.accept();  
    b2.accept();  
    cout << "The book with greater price: \n";  
    if (b1.price > b2.price)  
    {  
        b1.display();  
    }  
    else  
    {  
        cout << "both books have the same price: \n";  
        b1.display();  
        b2.display();  
    }  
    return 0;  
}
```

Output:

enter value of name, price, pages: Harry Potter  
500  
300

enter value of name, price, pages: Sudha Murty  
650  
350

Book with greater price:

Name : Sudha Murty , Price : 650 , Pages : 350

```
int main()
```

{

```
    Time t1;
```

```
    t1.accept();
```

```
    t1.display();
```

{

Output:

enter time :

H : 2

M : 30

S : 15

total time in seconds : 9015 seconds

③

```
#include <iostream>
```

```
using namespace std;
```

```
class Book
```

{

```
    int pages;
```

```
    string name;
```

```
    float price;
```

```
public:
```

```
    void accept()
```

{

```
cout << "enter value of name, price, pages:";
```

```
cin >> name >> price >> pages;
```

{

```
    void display()
```

{

```
    cout << "Name:" << name << "Price:" << price <<  
        "Pages:", << pages << endl;
```

{}

y

y

int main()

{

Student s1;

s1.accept();

s1.display();

return 0;

{

Output:

enter value of roll &amp; name 58

anushka

Roll: 12, Name: anushka.

② #include &lt;iostream&gt;

using namespace std;

class Time

{

int H, M, S;

public:

void accept()

{

cout &lt;&lt; "enter time:";

cin &gt;&gt; H &gt;&gt; M &gt;&gt; S;

{

void display()

{

int total;

total ((H \* 3600) + (M \* 60) + S);

cout &lt;&lt; "total time in seconds:" &lt;&lt; total;

{

y;