

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 << "\n 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

x ——— x ——— x

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```
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;
```

```
}
```


}

}

```
int main ()
```

```
{
```

```
    Student s1;
```

```
    s1.accept();
```

```
    s1.display();
```

```
    return 0;
```

```
}
```

Output :

enter value of roll & name 58

anushka

Roll : 12 , Name : anushka.

②

```
#include <iostream>
```

```
using namespace std;
```

```
class Time
```

```
{
```

```
    int H, M, S;
```

```
public:
```

```
    void accept();
```

```
{
```

```
    cout << "enter time:";
```

```
    cin >> H >> M >> S;
```

```
}
```

```
    void display()
```

```
{
```

```
        int total;
```

```
        total = (H * 3600) + (M * 60) + S;
```

```
        cout << "total time in seconds:" << total;
```

```
}
```

```
}
```