# Assignment # 2 of OOp Lab

## Question#1

```cpp
#include<iostream>
#include<cstring>
using namespace std;
class TEST{
    private:
        int test_code;
        string description;
        int n_o_candidate;
        int center_required;
        int CALCNTR(){

            cout<<"calcntr="<<(n_o_candidate/100+1)<<endl;
        }
    public:
        void SCHEDULE(){
            cout<<"enetr the value of test code :";
            cin>>test_code;
            cout<<endl;
            cout<<"enter the nofcandiate :";
            cin>>n_o_candidate;
            cout<<"enter the description :";
            cin>>description;
            cout<<endl;
            CALCNTR();
```

```cpp
#include<iostream>
#include<cstring>
using namespace std;
class TEST{
    private:
        int test_code;
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        int n_o_candidate;
        int center_required;
        int CALCNTR(){

            cout<<"calcntr="<<(n_o_candidate/100+1)<<endl;
        }
    public:
        void SCHEDULE(){
            cout<<"enetr the value of test code :";
            cin>>test_code;
            cout<<endl;
            cout<<"enter the nofcandiate :";
            cin>>n_o_candidate;
            cout<<"enter the description :";
            cin>>description;
            cout<<endl;
            CALCNTR();
```

```
            cout<<endl;
            CALCNTR();



        }
            void DISPTEST(){
                cout<<"test code "<<test_code<<endl;
                cout<<"description : "<<description<<endl;
                cout<<"num of candidate:"<<n_o_candidate;
            }
};
int main(){
    TEST t1;
    t1.SCHEDULE();
    t1.DISPTEST();
}
```

# Output

```
enetr the value of test code :123

enter the nofcandiate :140
enter the description :fjdkfsck

calcntr=2
test code 123
description : fjdkfsck
num of candidate:140
--------------------------------
```

# Question#2

```cpp
#include<iostream>
#include<cstring>
using namespace std;
class car{
    private:
        int flight_number;
        string Destination;
        float Distance;
        float fuel;
        int CALFUEL(){
            if(Distance<=1000){
                fuel=500;
            }
            if(Distance>1000 & Distance<2000){
                fuel=1100;

            }
            if(Distance>2000){
                fuel=2200;

            }
            cout<<endl;
            cout<<"fuel= " <<fuel<<endl;
        }
    public:
```

```
    public:
        void feedinfo(){
            cout<<"enter the flight number: ";
            cin>>flight_number;
            cout<<"enter the Distance :";
            cin>>Distance;
            cout<<"enter the destination: ";
            cin>>Destination;

            CALFUEL();      }
        void showinfo(){

            cout<<"Flight number: "<<flight_number<<endl;
            cout<<"Destination:"<<Destination<<endl;
            cout<<"Distance: "<<Distance<<endl;
        }
};
int main(){
    car c1;
    c1.feedinfo();
    c1.showinfo();
}
```

# OUTPUT

```
enter the flight number: 3
enter the Distance :1600
enter the destination: DADU SINDH

fuel= 1100
Flight number: 3
Destination:DADU
Distance: 1600
```

# Question# 3

```cpp
#include<iostream>
using namespace std;
class Book{
    private:
        int Book_no;
        char Book_title[20];
        float price;
        void Total_cost(int n_of_copies){
            cout<<"total cost= "<<n_of_copies*price;


        }
    public:
        void INPUT(){
                cout<<"enter Book Num ";
                cin>>Book_no;
                cout<<"enter the Book_title ";
                cin>>Book_title;
                cout<<"enter the price ";
                cin>>price;

        }
        void purchase(){
            int n;
            cout<<"enter the number of copies to be purchased ";
```

```cpp
        }
        void purchase(){
            int n;
            cout<<"enter the number of copies to be purchased ";
            cin>>n;
                Total_cost(n);


        }

};
int main(){
    Book b1;
    b1.INPUT();
    b1.purchase();
}
```

# Output

```
enter Book Num 2
enter the Book_title Alchemist
enter the price 500
enter the number of copies to be purchased 3
total cost= 1500
--------------------------------
Process exited after 110.3 seconds with return value 0
Press any key to continue . . .
```

# Question#4

```
#include<iostream>
using namespace std;
class REPORT{
    private:
        int adno;
        char name[20];
        float marks[5];
        float avg;
        void get_avg(){
            int sum=0;
            for(int i=0;i<5;i++){
                sum=sum+marks[i];

            }
                avg=sum/5;
                cout<<"avg= "<<avg<<endl;

        }
    public:
        void Readinfo(){
            cout<<"enter the Name ";
            cin>>name;
            cout<<"enter the adno: ";
            cin>>adno;
            cout<<"enter the marks ";
```

```
            cin>>adno;
            cout<<"enter the marks ";
            for(int i=0;i<5;i++){
                cin>>marks[i];
            }

            get_avg();
        }
        void display(){
            cout<<"name: "<<name<<endl;
            cout<<"adnmo: "<<adno<<endl;
            for(int i=0;i<5;i++){
                cout<<"marks["<<i<<"]= "<<marks[i];
            }



        }
};
int main(){
    REPORT r1;
    r1.Readinfo();
    r1.display();
}
```

# Output

```
enter the Name Asif
enter the adno: 3
enter the marks 56
86
897
766
5
avg= 362
name: Asif
adnmo: 3
marks[0]= 56marks[1]= 86marks[2]= 897marks[3]= 766marks[4]= 5
--------------------------------
Process exited after 11.06 seconds with return value 0
```

# Question#5

```
#include<iostream>
using namespace std;
class time
{
   private:
    int hours;
    int minutes;
   public:
    void settime(int h, int m)
    {
        hours=h; minutes=m;
    }
    time sum(time);
    void showtime();
};
time time::sum(time TM)
{
    time t;
    t.minutes = minutes + TM.minutes;
    t.hours=t.minutes/60;
    t.minutes=t.minutes%60;
    t.hours += hours + TM.hours;
    return t;
}
void time::showtime()
```

# Output

```
Time 1 : 2 hours and 45 minutes

Time 2 : 3 hours and 30 minutes

Time 3 : 6 hours and 15 minutes
```