C++ Assignment

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1.
```
class Student{
  private:
  int admno;
   char sname[20];
   float eng, math, science, total;

   float ctotal(){
      return eng + math + science;
   }
   public:
   void takedata(){

      cout<<"Enter Addmission Number:"; cin>>admno;
      cin.ignore();
      cout<<"Enter name:"; gets(sname);
      cout<<"Enter the marks in English:"; cin>>eng;
      cout<<"Enter the marks in Science:"; cin>>science;
      cout<<"Enter the marks in Mathematics:"; cin>>math;
      for(int i = 0; i < 20; i++)
         cout<<"*";
      cout<<endl;
     total = ctotal();
   }
   void showdata(){
      cout<<"Addmission Number:"<<admno<<endl;
      cout<<"Name:"<<sname<<endl;
      cout<<"Marks in English:"<<eng<<endl;
      cout<<"Marks in Science:"<<science<<endl;
      cout<<"Marks in Mathematics:"<<math<<endl;
      cout<<"Total:"<<total<<endl;
   }};
```

2.
```
class Batsman{
  private:
  int bcode;
  char bname[20];
  int innings, notout, runs;
  float batavg;

  float calavg(){
    if(innings == notout){
      batavg = runs;
      return batavg;
    }
    else{
    batavg = runs / (innings - notout);
    return  batavg;
    }
  }
  public:
  void readdata(){
    cout<<"Enter your bcode:"; cin>>bcode;
    cin.ignore();
    cout<<"Enter Name:"; gets(bname);
    cout<<"Enter Innings:"; cin>>innings;
    cout<<"Enter Notout:"; cin>>notout;
    cout<<"Enter Runs:"; cin>>runs;
    cout<<"################################\n";
  }
  void displaydata(){
    cout<<"Bcode:"<<bcode<<endl;
    cout<<"Name:"<<bname<<endl;
    cout<<"Innings:"<<innings<<endl;
    cout<<"Notout:"<<notout<<endl;
    cout<<"Runs:"<<runs<<endl;
    cout<<"The average is "<<batavg<<endl;
    cout<<"################################\n";
  }
};
```

3.
```
class TEST{
private:
int TestCode, NoCandidate, CenterReqd;
string Description;
void CALCNTR(){
   CenterReqd = NoCandidate / 100 + 1;
}
public:
void SCHEDULE(){
   cout<<"Enter TestCode:"; cin>>TestCode;
   cin.ignore();
   cout<<"Description:";
    getline(cin, Description);
   cout<<"Number of Candidate:"; cin>>NoCandidate;
   cout<<"##############################\n";
   CALCNTR();
}
void DISPTEST(){
   cout<<"TestCode:"<<TestCode<<endl;
   cout<<"Description:"<<Description<<endl;
   cout<<"Number of Candidate:"<<NoCandidate<<endl;
   cout<<"Centers required:"<<CenterReqd<<endl;
   cout<<"##############################\n";
}
};
```

4.
```
class FLIGHT{
private:
int Flight;
string Destination;
float Distance, Fuel;

void CALFUEL(){
   if(Distance <= 1000)
      Fuel = 500;
```

```
        else if(Distance > 1000 && Distance <= 2000)
            Fuel = 1100;

        else if(Distance > 2000)
            Fuel = 2200;
    }
    public:
    void FEEDINFO(){
        cout<<"Enter Flight Number:"; cin>>Flight;
        cin.ignore();
        cout<<"Destination:"; getline(cin,Destination);
        cout<<"Distance:"; cin>>Distance;
        cout<<"################################\n";
        CALFUEL();
    }
    void SHOWINFO(){

        cout<<"Flight Number:"<<Flight<<endl;
        cout<<"Destination:"<<Destination<<endl;
        cout<<"Distance:"<<Distance<<endl;
        cout<<"Fuel required:"<<Fuel<<endl;
        cout<<"################################\n";
    }
};
```

5. class BOOK{

```
    private:
    int BOOK_NO;
    char BOOKTITLE[20];
    float PRICE;
    int N;

    void TOTALCOST(int){
        cout<<"Total Cost:"<<PRICE * N<<endl;
    }
    public:

    void INPUT(){
        cout<<"Enter Book Number:"; cin>>BOOK_NO;
        cin.ignore();
        cout<<"Enter Book title:"; gets(BOOKTITLE);
        cout<<"Enter Price:"; cin>>PRICE;
    }

    void PURCHASE(){
      cout<<"Enter the numbers of copies:"; cin>>N;
      TOTALCOST(N);
    }
};
```