NAME : ***HASNAT AHMAD.***
CLASS : ***BSE(2A).***
ROLL NO : ***20P-0079.***
SUBJECT : ***OPP LAB.***

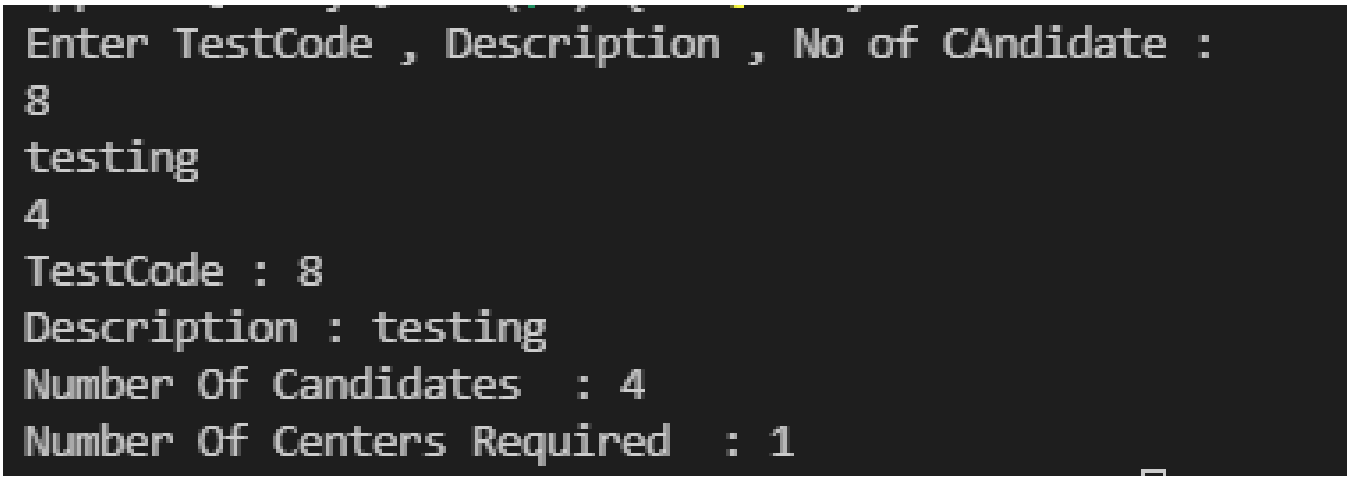
ASSIGNMENT 2.

QUESTION 1.

```
#include<iostream>
#include<string>
using namespace std;
class Test{
   private:
   int Testcode;
   string Description;
   int NoCandidate;
   int CenterReqd;
   int CALCNTR(){
      return CenterReqd=(NoCandidate/100+1);

   }
   public:
   void SCHEDULE(){
```

```
    cout<<"Enter TestCode , Description , No of CAndidate : "<<endl;
    cin>>Testcode>>Description>>NoCandidate;
    CALCNTR();
  }
  void DISPTEST(){
    cout<<"TestCode : "<<Testcode<<endl;
    cout<<"Description : "<<Description<<endl;
    cout<<"Number Of Candidates  : "<<NoCandidate<<endl;
     cout<<"Number Of Centers Required  : "<<CenterReqd<<endl;

  }
};
int main(){
  Test t1;
  t1.SCHEDULE();
  t1.DISPTEST();

}
```

OUTPUT.



QUESTION 2.

```
#include<iostream>
#include<string>
using namespace std;
class Jet{
   private:
   int Flight_number;
   string Destination;
   float Distance;
   float 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 , Destination , Distance "<<endl;
         cin>>Flight_number>>Destination>>Distance;
         CALFUEL();

      }
      void SHOWINFO(){
         cout<<"FLight Number : "<<Flight_number<<endl;
```

```
        cout<<"Destination : "<<Destination<<endl;
        cout<<"Distance : "<<Distance<<endl;
        cout<<"Fuel : "<<Fuel<<endl;
    }

};
int main(){
   Jet j1;
   j1.FEEDINFO();
   j1.SHOWINFO();
}
```

OUTPUT.

```
Enter Flight Number , Destination , Distance
22
Peshawar
2400
FLight Number : 22
Destination : Peshawar
Distance : 2400
Fuel : 2200
```

QUESTION 3.

```
#include<iostream>
```

```
#include<string>
using namespace std;
class Book{
   private:
   int Book_number;
   char Book_title[20];
   float Price;
   void TOTAL_COST(int N){
      cout<<"Total Cost = "<<N*Price<<endl;
   }
   public:
      void INPUT(){
         cout<<"Enter Book Number , Book Title , Price "<<endl;
         cin>>Book_number>>Book_title>>Price;
      }
      void PURCHASE(){
         int c;
         cout<<"Enter Number Of Copies : ";
         cin>>c;
         TOTAL_COST(c);

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

OUTPUT.

```
Enter Book Number , Book Title , Price
4
Kings
400
Enter Number Of Copies : 6
Total Cost = 2400
```

QUESTION 4.

```
#include<iostream>
using namespace std;
class Report{
   private:
   int adno;
   char name[20];
   float marks[5];
   int avg=0;
   void GET_AVG(){
      int total=0;
      for(int i=0;i<5;i++){
         total+=marks[i];
      }
      avg=total/5;
   }
   public:
      void READINFO(){
         cout<<"Enter Admission Number , Name "<<endl;
         cin>>adno>>name;
         cout<<"Enter 5 Subject MArks : "<<endl;
      for(int i=0;i<5;i++){
         cin>>marks[i];
```

```
      }
      GET_AVG();
      }
       void DISPLAYINFO(){
          cout<<"Admission No : "<<adno<<endl;
          cout<<"NAme : "<<name<<endl;
          cout<<"MArks : "<<endl;
          for(int i=0;i<5;i++){
              cout<<marks[i]<<"  ";
      }
      cout<<"Average : "<<avg<<endl;

       }
};
int main(){
   Report R1;
   R1.READINFO();
   R1.DISPLAYINFO();
}
```

OUTPUT.

```
Enter Admission Number , Name
22
Hasnat
Enter 5 Subject MArks :
77
86
99
87
69
Admission No : 22
NAme : Hasnat
MArks :
77  86  99  87  69  Average : 83
```

QUESTION 5.

```
#include<iostream>
using namespace std;
class Time{
   private:
   int hours,minutes;
   public:
      void settime(int h,int m){
         hours=h;
         minutes=m;
      }
      void showtime(){
         cout<<"Hours : "<<hours<<"  "<<" Minutes : "<<minutes<<endl;
      }
      Time sum(Time t2){
         Time t3;
         t3.minutes=minutes+t2.minutes;
         t3.hours=hours+t2.hours;
         return t3;
      }
};
int main(){
   Time t1,t2,t3;
   t1.settime(3,55);
   t1.showtime();
   t2.settime(5,32);
   t2.showtime();
   t3=t1.sum(t2);
   t3.showtime();
}
```

OUTPUT.