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PART A

Program 1 :-

```
#include<iostream.h>
#include<conio.h>

class SI {
   int amount;
   float rate;
   int time;
   float result;
   public:
      void getdata();
   void computeSI();
   void display();
};
void SI::getdata() {
   cout << "Enter Principle Amount: ";
   cin >> amount;
   cout << "Enter Rate of Interest: ";
   cin >> rate;
   cout << "Enter time period(in years): ";
   cin >> time;
}
void SI::computeSI() {
   result = amount * rate * time / 100;
}
void SI::display() {
   cout << "The Simple Interst is: " << result;
}
int main() {
   SI si;
   clrscr();
   si.getdata();
   si.computeSI();
   si.display();
   getch();
   return 0;
}
```

OUTPUT: -

```
Enter Principle Amount: 5000
Enter Rate of Interest: 7.5
Enter time period (in years): 3
The Simple Interest is: 1125.0
```

Program 2 : -

```
#include<iostream.h>
#include<conio.h>

class complex {
   int real, img;
   public:
      void getdata();
   void putdata();
   void add(complex, complex);
   void sub(complex, complex);
};
void complex::getdata() {
   cout << endl << "Enter the Real part:";
   cin >> real;
   cout << endl << "Enter the Imaginary part:";
   cin >> img;
}
void complex::putdata() {
   cout << real;
   if (img >= 0) {
      cout << "+" << img << "i";
   } else
      cout << img << "i";
}
void complex::add(complex c1, complex c2) {
   real = c1.real + c2.real;
   img = c1.img + c2.img;
}
void complex::sub(complex c1, complex c2) {
   real = c1.real - c2.real;
   img = c1.img - c2.img;
}
void main() {
   clrscr();
   complex c1, c2, c3;
   cout << endl << "Enter the First complex number:";
   c1.getdata();
   c1.putdata();
   cout << endl << "Enter the Second complex number:";
   c2.getdata();
   c2.putdata();
   cout << endl << "Sum of the complex numbers is:";
```

```
    c3.add(c1, c2);

    c3.putdata();
    cout << endl << "Difference of the complex numbers is:";
    c3.sub(c1, c2);
    c3.putdata();
    getch();
}
```

OUTPUT : -

```
Enter the first complex number:
Enter the real part:12

Enter the imaginary part:3
12+3i
Enter the second complex number:
Enter the real part:4

Enter the imaginary part:2
4+2i
Sum of complex number is: 17+5i
Difference of complex number is:8+1i
```

Program 3 : -

```
#include<iostream.h>
#include<conio.h>

const float PI = 3.14;
class shape {
   public: void volume(int);
   void volume(double, double);
   void volume(int, int, int);
};
void shape::volume(int s) {
   int vc = s * s * s;
   cout << "The Volume of a Cube is: " << vc;
}
void shape::volume(double r, double h) {
   double vcl = PI * r * r * h;
   cout << endl << "The Volume of Cylinder is: " << vcl;
}
void shape::volume(int l, int b, int h) {
   int vcd = l * b * h;
   cout << endl << "The Volume of a Cuboid is: " << vcd;
}
int main() {
   shape s;
   clrscr();
   s.volume(5);
   s.volume(5.1, 2.5);
   s.volume(2, 3, 4);
   getch();
   return 0
}
```

OUTPUT :-

```
Volume of the cube is:125
Volume of the cylinder is:204.179
Volume of the cuboid is:24
```

Program 4 : -

```
#include<iostream.h>
#include<conio.h>

class distance {
   int feet, inch;
   public:
      void read();
   void show();
   void add(distance, distance);
};
void distance::read() {
   cout << endl << "Enter the feet and inch:";
   cin >> feet >> inch;
}
void distance::show() {
   cout << endl << "Distance is " << feet << " feets and " <<
      inch << " inches";
}
void distance::add(distance d1, distance d2) {
   inch = d1.inch + d2.inch;
   feet = inch / 12;
   inch = inch % 12;
   feet = feet + d1.feet + d2.feet;
}
void main() {
   clrscr();
   distance d1, d2, d3;
   d1.read();
   d1.show();
   d2.read();
   d2.show();
   d3.add(d1, d2);
   cout << endl << "Sum of the";
   d3.show();
   getch();
}
```

OUTPUT: -

```
Enter the feet and inch: 3 5
Distance is 3 feets and  5 inches
Enter the feet and inch:4 2
Distance  is 4 feets and 2
```

Program 5 : -

```
#include<iostream.h>
#include<conio.h>

class library {
   int accno, price, yop;
   char author[15], title[20], pub[20];
   public:
      void putdata();
   library();
   ~library() {
      cout << endl << "Object is Destroyed";
   }
};
library::library() {
   cout << endl << "Enter the accno,author,title,publisher,year of publishing and price:" << endl;
   cin >> accno >> author >> title >> pub >> yop >> price;
}
void library::putdata() {
   cout << endl << "Accno=" << accno;
   cout << endl << "Author=" << author;
   cout << endl << "Title=" << title;
   cout << endl << "Publisher=" << pub;
   cout << endl << "Year of publishing=" << yop;
   cout << endl << "Price=" << price;
}
void main() {
   clrscr();
   int n, i;
   cout << endl << "Enter the number of Books:";
   cin >> n;
   for (i = 0; i < n; i++) {
      cout << endl << "Enter the details of Book:" << i + 1;
      library l;
      cout << endl << "Details of Book:" << i + 1;
      l.putdata();
   }
   getch();
}
```

OUTPUT : -

```
Enter the number of Books:2
Enter the Details of Book:1
Enter the accno,author,title,publisher,year of publishing and
price:101 Hari car dcbooks 2010 400
Details of Book:1
Accno=101
Author=Hari
Title=car
Publisher=dcbooks
Year of Publishing=2010
Price=400
Object is Destroyed
Enter the Details of Book:2
Enter the accno,author,title,publisher,year of publishing and
price:102 Jacob bike acbooks 2011 550
Details of Book:1
Accno=102
Author=Jacob
Title=car
Publisher=acbooks
Year of Publishing=2011
```

Program 6: -

```
#include<iostream.h>
#include<conio.h>

class rectangle {
   float l, b, area1;
   public:
      void getdata();
   void putdata();
   float rarea();
};
class cuboid: public rectangle {
   float h, area2;
   public:
      void getdatac();
   void putdatac();
   float carea();
};
void rectangle::getdata() {
   cout << endl << "Enter the length:";
   cin >> l;
   cout << endl << "Enter the breadth:";
   cin >> b;
}
void rectangle::putdata() {
   cout << endl << "Lenghth=" << l << endl << "Breadth=" << b << endl << "Area=" <<
rarea();
}
float rectangle::rarea() {
   area1 = l * b;
   return area1;
}
void cuboid::getdatac() {
   cout << endl << "Enter the height:";
   cin >> h;
}
void cuboid::putdatac() {
   cout << endl << "The height is:" << h << endl << "Area is:" << carea();
}
float cuboid::carea() {
   area2 = rarea() * h;
   return area2;
}
void main() {
   clrscr();
   cuboid c;
   c.getdata();
   c.putdata();
```

```
    c.getdatac();
    c.putdatac();
    getch();
}
```

OUTPUT :-

```
Lenghth=12
Breadth=10
Area=120
Enter the height:20
The height is:20
Area is:2400
```

Program 7

```
#include<iostream.h>
#include<conio.h>
#include<string.h>

class student {
   int regno;
   char name[10];
   double fees;
   public:
      void getdata(int r, char n[10], double f) {
         regno = r;
         strcpy(name, n);
         fees = f;
      }
   void show() {
      cout << "register number = " << regno << endl;
      cout << "name = " << name << endl;
      cout << "Fees = " << fees;
   }
};
main() {
   student * s = new student[1];
   clrscr();
   s -> getdata(011, "Rahul", 12500);
   s -> show();
   getch();
   return 0;
}
```

OUTPUT: -

```
Register number = 011
Name = Rahul
Fees = 12500
```

Program 8 :-

```
 #include<iostream.h>
#include<conio.h>

template < class T >
   class Calculator {
      private: T num1,
      num2;
      public: Calculator(T n1, T n2) {
         num1 = n1;
         num2 = n2;
      }
      void displayResult() {
         cout << "Numbers are: " << num1 << " and " << num2 << "." << endl;
         cout << "Addition is: " << add() << endl;
         cout << "Subtraction is: " << subtract() << endl;
         cout << "Product is: " << multiply() << endl;
         cout << "Division is: " << divide() << endl;
      }
      T add() {
         return num1 + num2;
      }
      T subtract() {
         return num1 - num2;
      }
      T multiply() {
         return num1 * num2;
      }
      T divide() {
         return num1 / num2;
      }
   };
int main() {
   Calculator < int > intCalc(2, 1);
   Calculator < float > floatCalc(2.4, 1.2);
   clrscr();
   cout << "Int results:" << endl;
   intCalc.displayResult();
   cout << endl << "Float results:" << endl;
   floatCalc.displayResult();
   getch();
   return 0;
}
```

OUTPUT: -

```
Int results:
Numbers are : 2 and 1
Addition is: 3
Subtraction is : 1
Product is : 2
Division is :2
Float results:
Numbers are : 2.4 and 1.2
Addition is: 3.6
Subtraction is : 1.2
Product is : 2.88
Division is :2
```

Program 9 : -

```
#include<iostream.h>
#include<conio.h>
#include<math.h>

class Quadratic {
   private:
    int a, b, c;
   float disc,x, x1,x2;
   public: void readdata();
   void compute();
   void display();
};
void Quadratic::readdata() {
   cout << "Enter the values for a, b, c (Co-efficeient)" << endl;
   cin >> a >> b >> c;
}
void Quadratic::compute() {
   disc = b * b - 4 * a * c;
}
void Quadratic::display() {
   compute();
   if (disc == 0) {
      cout << "Equal Roots..." << endl;
      x = -b / (2 * a);
      cout << "Root is...." << x;
   } else if (disc > 0) {
      cout << "Real and Distinct Roots..." << endl;
      x1 = (-b + sqrt(disc)) / (2 * a);
      x2 = (-b - sqrt(disc)) / (2 * a);
      cout << "Root 1 is " << x1 << endl;
      cout << "Root 2 is " << x2 << endl;
   } else
      cout << "Imaginary Roots..." << endl;
}
void main() {
   Quadratic q;
   clrscr();
   q.readdata();
   q.display();
   getch();
}
```

OUTPUT : -

```
Enter the values for a, b, c (Co-efficient)
1  4   4
Equal Roots…

Enter the value for a, b, c (Co-efficient)
1-5   6
Root   1   is 3
Root 2 is 2

Enter the values for a, b, c (Co-efficient)
2  3   10
Imaginary Roots…
```

Program 10 : -

```
#include<iostream.h>
#include<conio.h>

class student {
   int regno, m1, m2, m3, total;
   float avg;
   char name[20];
   public:
      void getdata();
   void putdata();
   void calculate();
};
void student::getdata() {
   cout << endl << "Enter the register number:";
   cin >> regno;
   cout << endl << "Enter the name:";
   cin >> name;
   cout << endl << "Enter the marks in three subjects:";
   cin >> m1 >> m2 >> m3;
}
void student::putdata() {
   cout << endl << "Register No:" << regno;
   cout << endl << "Name:" << name;
   cout << endl << "Mark1:" << m1 << endl << "Mark2:" << m2 << endl << "Mark3:" <<
      m3;
}
void student::calculate() {
   total = m1 + m2 + m3;
   cout << endl << "Total:" << total;
   avg = total / 3;
   cout << endl << "Average:" << avg;
   cout << endl << "Grade:";
   if (m1 > 35 && m2 > 35 && m3 > 35) {
      if (avg >= 70)
         cout << "Distinction";
      else if (avg >= 60)
         cout << "First class";
      else if (avg >= 50)
         cout << "Second class";
      else
```

```
            cout << "Pass";
        } else
            cout << "Failed";
    }
    void main() {
        clrscr();
        student s[20];
        int i, n;
        cout << endl << "Enter the number of students:";
        cin >> n;

        for (i = 0; i < n; i++) {
            cout << endl << "Enter the Details of student" << i + 1;
            s[i].getdata();
            s[i].putdata();
            s[i].calculate();
        }
        getch();
    }
```

OUTPUT : -

```
Enter the number of student:2
Enter the details of student 1
Enter the register number:111
Enter the name:Ramesh
Enter the marks in three subjects:55 66 61

Register No:111
Name:Ramesh
Mark1:55
Mark2:66
Mark3:61
Total:182
Average:60

Enter the details of student 2
Enter the register number:222
Enter the name:Reshma
Enter the marks in three subjects:33 56 65

Register No:222
Name:Reshma
```

PART - B

Program 11 : -

```
#include<iostream.h>
#include<conio.h>
#include<stdlib.h>
#include<string.h>

class bank {
   int accno;
   float bal;
   char name[20];
   public:
      bank(int acno, char name1[20], float balance) {
         accno = acno;
         strcpy(name, name1);
         bal = balance;
      }
   void dep(float);
   void withdraw(float);
   void display();
};
void bank::dep(float amount) {
   bal = bal + amount;
   cout << endl << "Transaction Processed" << endl << "Balance is:" << bal;
}
void bank::withdraw(float amount) {
   if (bal < amount) {
      cout << endl << "Transaction Failed";
   } else
   if ((bal - amount) < 500) {
      cout << endl << "Minimum balance of 500 should be maintained";
   } else {
      bal = bal - amount;
      cout << endl << "Transaction Processed" << endl << "Current balance is:" << bal;
   }
}
void bank::display() {
   cout << endl << "**Customer Details**";
   cout << endl << "Account number is:" << accno;
   cout << endl << "Name is:" << name;
   cout << endl << "Balance is:" << bal;
}
void main() {
   int a, n;
   float am, ba;
   char nam[20];
   clrscr();
```

```
    cout << endl << "Enter the Accno:";
    cin >> a;
    cout << endl << "Enter the Name:";
    cin >> nam;
    cout << endl << "Enter the Balance:";
    cin >> ba;
    bank b(a, nam, ba);
    while (1) {
      cout << endl << "1.Deposit" << endl << "2.Withdrawal" << endl << "3.Display" << endl
<< "4.Exit" << endl << "Enter your choice:";
      cin >> n;
      switch (n) {
      case 1:
        cout << "Enter the amount to be deposited:";
        cin >> am;
        b.dep(am);
        break;
      case 2:
        cout << "Enter the amount to be withdrawed:";
        cin >> am;
        b.withdraw(am);
        break;
      case 3:
        b.display();
        break;
      case 4:
        exit(0);
        break;
      default:
        cout << "invalid input";
        break;
      }
      getch();
    }
}
```

OUTPUT : -

```
Enter the Accno:001
Enter the Name: Shahabas
Enter the balance: 13000

1.Deposit
2.Withdrawal
3. Display
4.Exit
Enter your choice: 1
Enter the amount to be deposited:
3000

Transaction Processed
Balance: 16000
1.Deposit
2.Withdrawal
3. Display
4.Exit
Enter your choice: 2
Enter the amount to be Withdrawal:
3000

Transaction Processed
Current balance is: 13000
1.Deposit
2.Withdrawal
3.Display
4.Exit
Enter your choice: 3

**Customer Details**
Account Number: 001
Name is: Shahabas
Balance is: 13000
1.Deposit
2.Withdrawal
3.Display
4.Exit
Enter your choice: 4
```

Program 12 : -

```
#include<iostream.h>
#include<conio.h>
#include<string.h>
#include<stdlib.h>

class graphics {
    int i, n, j;
    float area[20], temp;
    char shape[20][20], fc[20][20], bc[20][20], cmp[20];
    public:
        graphics();
    void display();
    void search(char a[20]);
    void sort();
};
graphics::graphics() {
    cout << endl << "Enter the number of shapes:";
    cin >> n;
    for (i = 0; i < n; i++) {
        cout << endl << "Detail of shape" << i + 1;
        cout << endl << "enter the shape:";
        cin >> shape[i];
        cout << endl << "enter the area:";
        cin >> area[i];
        cout << "Enter the forecolor:";
        cin >> fc[i];
        cout << "Enter the backcolor:";
        cin >> bc[i];
    }
}
void graphics::display() {
    for (i = 0; i < n; i++) {
        cout << endl << "Detail of shape" << i + 1;
        cout << endl << shape[i] << endl << area[i] << endl << fc[i] <<
endl << bc[i];
    }
}
void graphics::search(char a[20]) {
    int flag = 0;
    for (i = 0; i < n; i++) {
        if (strcmpi(shape[i], a) == 0) {
            flag = 1;
            cout << shape[i] << endl << area[i] << endl << fc[i] << endl
<< bc[i];
            break;
```

```
            }
        }
        if (flag == 0)
            cout << "shape not found:";
    }

    void graphics::sort() {
        cout << endl << "Sorted";
        for (i = 0; i < n - 1; i++) {
            for (j = i + 1; j < n; j++) {
                if (area[i] > area[j]) {
                    temp = area[i];
                    area[i] = area[j];
                    area[j] = temp;
                    strcpy(cmp, shape[i]);
                    strcpy(shape[i], shape[j]);
                    strcpy(shape[j], cmp);
                    strcpy(cmp, bc[i]);
                    strcpy(bc[i], bc[j]);
                    strcpy(bc[j], cmp);
                    strcpy(cmp, fc[i]);
                    strcpy(fc[i], fc[j]);
                    strcpy(fc[j], cmp);
                }
            }
        }
    }
    void main() {
        clrscr();
        char a[20];
        int s;
        graphics g;
        while (1) {
            cout << endl << "Option 1:Display" << endl << "Option 2:Sort" <<
    endl << "Option 3:Search" << endl << "Option 4:Exit";
            cout << endl << "Enter the option:";
            cin >> s;
            switch (s) {
            case 1:
                g.display();
                break;
            case 2:
                g.sort();
                g.display();
                break;
            case 3:
                cout << "enter the shape to be searched:";
```

```
                cin >> a;
                g.search(a);
                break;
            case 4:
                exit(0);
                break;
            default:
                cout << "Invalid input:";
            }
            getch();
        }
    }
```

OUTPUT : -

```
Enter the number of shapes:2
Detail of shape1
Enter the shape:rectangle
Enter the area 25
Enter the forecolor:red
Enter the backcolor:black

Detail of shape2
Enter the shape:circle
Enter the area :30
Enter the forecolor:green
Enter the backcolor:white

Option 1: Display
Option 2: Sort
Option 3: Search
Option 4: Exit
Enter the option:1
Detail of shape: 1
Rectangle
25 Red black
Detail of shape: 2
Circle
30
Green
White

Option 1: Display
Option 2: Sort
Option 3: Search
Option 4: Exit
Enter the option:2
Sorted
Detail of shape: 1
Rectangle
25 Red black
Detail of shape: 2
Circle
30
```

```
Green
White

Option 1: Display
Option 2: Sort
Option 3: Search
Option 4: Exit
Enter the option:3
Enter the shape to be searched:circle
Circle
30
Green
White

Option 1: Display
Option 2: Sort
Option 3: Search
Option 4: Exit
Enter the option:4
```

Program 13 : -

```
#include<iostream.h>
#include<conio.h>
#include<string.h>

class string {
    char str[20];
    public:
        void getdata() {
            cin >> str;
        }
    void putdata() {
        cout << "String is:" << str;
    }
    friend string operator + (string s1, string s2);
    friend int operator < (string s1, string s2);
    friend int operator > (string s1, string s2);
    friend int operator == (string s1, string s2);
};
string operator + (string s1, string s2) {
    string t;
    strcpy(t.str, s1.str);
    strcat(t.str, " ");
    strcat(t.str, s2.str);
    return t;
}
int operator < (string s1, string s2) {
    if (strcmpi(s1.str, s2.str) < 0)
        return 1;
    else
        return 0;
}
int operator > (string s1, string s2) {
    if (strcmpi(s1.str, s2.str) > 0)
        return 1;
    else
        return 0;
}
int operator == (string s1, string s2) {
    if (strcmpi(s1.str, s2.str) == 0)
        return 1;
    else
        return 0;
}
void main() {
    clrscr();
    string s1, s2, s3;
    cout << endl << "Enter the First string:";
    s1.getdata();
    s1.putdata();
    cout << endl << "Enter the Second string:";

    s2.getdata();
```

```
        s2.putdata();
        cout << endl << "concatenated";
        s3 = s1 + s2;
        s3.putdata();
        if (s1 == s2) {
            cout << endl << "String is Equal";
        } else {
            cout << endl << "String is not Equal";
        }
        if (s1 > s2)
            cout << endl << "First string is greater than second string ";
        if (s1 < s2)
            cout << endl << "First string is less than second string";
        getch();
    }
```

OUTPUT : -

```
Enter the first string:Oxford
Sting is:Oxford
Enter the second string:University
String is:University
Concatenated string is:Oxford University
String is not Equal
First string is less than second string
```

Program 14 : -

```
#include<iostream.h>
#include<conio.h>
#include<stdlib.h>

class time1 {
    int h, m, s;
    public:
        void getdata();
    void putdata();
    void operator++();
    void operator--();
};
void time1::getdata() {
    cout << endl << "Enter the hours:";
    cin >> h;
    if (h >= 24) {
        cout << endl << "Invalid hour,Try again:";
        cin >> h;
    }
    cout << endl << "Enter the minutes:";
    cin >> m;
    if (m >= 60) {
        cout << endl << "Invalid minutes,Try again:";
        cin >> m;
    }
    cout << endl << "Enter the second:";
    cin >> s;
    if (s >= 60) {
        cout << endl << "Invalid second,Try again:";
        cin >> s;
    }
}
void time1::putdata() {
    cout << endl << "Time is " << h << ":" << m << ":" << s;
}
void time1::operator++() {
    s = s + 1;
    if (s == 60) {
        s = 0;
        m = m + 1;
    }
    if (m == 60) {
        m = 0;
        h = h + 1;
    }
    if (h > 23) {
```

```
            h = 0;
        }
    }

    void time1::operator--() {
        s = s -
            1;
        if (s < 0) {
            s = 59;
            m = m -
                1;
        }
        if (m < 0) {
            m = 59;
            h = h - 1;
        }
        if (h < 0) {
            h = 23;
        }
    }
    void main() {
        clrscr();
        int n;
        time1 t;
        while (1) {
            cout << endl << "Option 1: Enter the time" << endl <<
    "Option 2:Display" << endl << "Option 3:Add" << endl <<
    "Option4:Sub" << endl << "Option 5:Exit";
            cout << endl << "Enter the Option:";
            cin >> n;
            switch (n) {
            case 1:
                t.getdata();
                break;
            case 2:
                t.putdata();
                break;
            case 3:
                t.operator++();
                t.putdata();
                break;
            case 4:
                t.operator--();
                t.putdata();
                break;
            case 5:
                exit(0);
            default:
                cout << endl << "Invalid Input";
            }
```

```
            getch();
        }
    }
```

OUTPUT :-

```
Option 1.Enter the time
Option 2.Display
Option 3. Add
Option 4. Sub
Option 5. Exit
Enter the option:1

Enter the hours:2
Enter the minutes:25
Enter the seconds:34

Option 1.Enter the time
Option 2.Display
Option 3. Add
Option 4. Sub
Option 5. Exit
Enter the option:2

Enter the option:2

Time is 2:25:34
Option 1.Enter the time
Option 2.Display
Option 3. Add
Option 4. Sub
Option 5. Exit
Enter the option:3

Time is 2:25:35
Option 1.Enter the time
Option 2.Display
Option 3. Add
Option 4. Sub
Option 5. Exit
Enter the option:4

Time is 2:25:34
Option 1.Enter the time
Option 2.Display
Option 3. Add
Option 4. Sub
Option 5. Exit
Enter the option:5
```

Program 15 : -

```
#include<iostream.h>
#include<conio.h>
#include<string.h>

class personal_info {
    protected: char name[30];
    char gender[30];
    char address[30];
    public: void get_personal_info() {
        cout << "enter name,address and gender:" << endl;
        cin >> name >> address >> gender;
    }
    void put_personal_info() {
        cout << "name=" << name << endl;
        cout << "address=" << address << endl;
        cout << "gender=" << gender << endl;
    }
};
class physical_info {
    protected: float height,
    weight;
    char blood_group[10];
    public: void get_physical_info() {
        cout << "enter height,weight and blood group:" << endl;
        cin >> height >> weight >> blood_group;
    }
    void put_physical_info() {
        cout << "height=" << height << endl;
        cout << "weight=" << weight << endl;
        cout << "blood_group=" << blood_group << endl;
    }
};
class salary: public personal_info, public physical_info {
    int emp_no;
    char department[50];
    float salary;
    public:
        void get_info() {
            get_personal_info();
            get_physical_info();
            cout << "enter the empno,department and salary:" <<
endl;
            cin >> emp_no >> department >> salary;
        }
    void increment() {
        if (strcmpi(gender, "male") == 0) {
            if ((strcmpi(department, "sales") == 0) ||
(strcmpi(department, "purchase") == 0))
```

```
            {
                float inc;
                inc = salary * 0.1;
                cout << "increment is:" << inc;
            } else
                cout << "no increment";
        } else {
            if ((strcmpi(department, "sales") == 0) ||
(strcmpi(department, "purchase") == 0)) {
                float inc;
                inc = salary * 0.11;
                cout << "increment is:" << inc;
            } else
                cout << "no increment";
        }
    }
    void put_info() {
        put_personal_info();
        put_physical_info();
        cout << "employee number:" << emp_no << endl;
        cout << "department:" << department << endl;
        cout << "salary:" << salary << endl;
    }
};
void main() {
    clrscr();
    salary s;
    s.get_info();
    s.put_info();
    s.increment();
    getch();
}
```

OUTPUT :-

```
Enter name, address, and gender:
Shahabas kanhangad male
Enter the height, weight, and blood group:
5.4  51  O
Enter the empno, deparment, and salary:
001 Manager 15000
Name=shahabas
Address=kanhangad
Gender=male
Height=5.4
Weight=51
Blood_group=O
Employee_number=001
Department=manager
Salary=15000
Increment is: 1200
```