#include<iostream>

#include<string>

using namespace std;

struct student

{

string ID;

string name;

string department;

string email;

string phoneNumber;

};

int main()

{

struct student s[5];

for(int i=0; i<5; i++)

{

cout<<"Enter the ID number of student "<<i+1<<":"<<endl;

cin>>s[i].ID;

cout<<"Enter the name of student "<<i+1<<":"<<endl;

cin.ignore();

getline(cin,s[i].name);

cout<<"Enter the department of student "<<i+1<<":"<<endl;

cin>>s[i].department;

cout<<"Enter the email of student "<<i+1<<":"<<endl;

cin>>s[i].email;

cout<<"Enter the phone number of student "<<i+1<<":"<<endl;

cin>>s[i].phoneNumber;

}

for(int i=0; i<5; i++)

{

cout<<"The ID of student "<<i+1<<" is:"<<s[i].ID<<endl;

cout<<"The name of student "<<i+1<<" is:"<<s[i].name<<endl;

cout<<"The department of student "<<i+1<<" is:"<<s[i].department<<endl;

cout<<"The email of student "<<i+1<<" is:"<<s[i].email<<endl;

cout<<"The phone number of student "<<i+1<<" is:"<<s[i].phoneNumber<<endl;

}

return 0;

}

Question 2

#include<iostream>

#include<string>

using namespace std;

struct product

{

string name;

double modelnum;

double price;

};

void display(product a[])

{

for(int i=0; i<10; i++)

{

cout<<"The name of product "<<i+1<<" is "<<a[i].name<<endl;

cout<<"The model number of product "<<i+1<<" is "<<a[i].modelnum<<endl;

cout<<"The price of product "<<i+1<<" is "<<a[i].price<<endl;

}

}

int main()

{

product p[10];

for(int i=0; i<10; i++)

{

cout<<"Enter the name of product "<<i+1<<":"<<endl;

cin.ignore();

getline(cin,p[i].name);

cout<<"Enter the model number of product "<<i+1<<":"<<endl;

cin>>p[i].modelnum;

cout<<"Enter the price of product "<<i+1<<":"<<endl;

cin>>p[i].price;

}

display(p);

return 0;

}

Question 3

#include<iostream>

#include<string>

using namespace std;

struct employee

{

string empNum;

string empName;

double basicSalary;

double houseAllowence=0;

double medicalAllowence=0;

double tax=0;

double grossSalary=0;

double netSalary=0;

};

void display(employee y)

{

for(int i=0; i<20; i++)

{

cout<<"\*\*";

}

cout<<endl;

cout<<"\t\tEMPLOYERS SALARY DETAILS\t\t"<<endl;

for(int i=0; i<20; i++)

{

cout<<"\*\*";

}

cout<<endl;

cout<<"Employee Number:"<<y.empNum<<endl;

cout<<"Employee Name:"<<y.empName<<endl;

cout<<"Basic Salary:"<<y.basicSalary<<endl;

cout<<"House Allowence:"<<y.houseAllowence<<endl;

cout<<"Medical Allowence:"<<y.medicalAllowence<<endl;

cout<<"Gross Salary:"<<y.grossSalary<<endl;

cout<<"Tax Deduction:"<<y.tax<<endl;

cout<<"Net Salary:"<<y.empNum<<endl;

}

double empSalary(employee x)

{

x.houseAllowence=10\*x.basicSalary/100;

x.medicalAllowence=5\*x.basicSalary/100;

x.tax=4\*x.basicSalary/100;

x.grossSalary=x.basicSalary+x.houseAllowence+x.medicalAllowence;

x.netSalary=x.grossSalary-x.tax;

display(x);

return x.netSalary;

}

int main()

{

struct employee e;

cout<<"Enter the employee number:";

cin>>e.empNum;

cout<<"Enter the employee name:";

cin.ignore();

getline(cin,e.empName);

cout<<"Enter the basic salary of employee:";

cin>>e.basicSalary;

empSalary(e);

return 0;

}

Question 4

#include<iostream>

#include<string>

using namespace std;

int main()

{

int array[5]={5,10,15,20,25};

int \*ptr=&array[0];

for(int i=0; i<5; i++)

{

cout<<"Values="<<\*(ptr+i)<<endl;

cout<<"Addresses of Values="<<ptr<<endl;

}

return 0;

}

QUESTION 6

#include<iostream>

using namespace std;

int main()

{

int array[10];

for(int i=0; i<10; i++)

{

    cout<<"Enter value "<<i+1<<":"<<endl;

    cin>>array[i];

}

    int \*ptr;

    ptr=array;

        for(int i=0; i<10; i++)

        {

        cout<<"Value "<<i+1<<" = "<<ptr[i]<<endl;

        }

        int search,y;

        cout<<"Enter a number which do you want to search:";

        cin>>search;

        for(int j=0; j<10; j++)

        {

            if(search==(ptr[j]))

            {

                y=search;

}

        }

if(y==search)

{

        cout<<"Value found:"<<endl;

        }

else

            cout<<"Sorry! value doesn't exist";

 return 0;

}