

## Assignment 1

Complete the following program

If the number is not present in the array show to user number not present.

```
#include <iostream>
using namespace std;

int main()
{
    int arr[10] = {1,99,3,67,32,77,56,2,89,45};
    int *ptr, num;
    ptr = arr;
    //or ptr = &arr[0];
    cout << "Enter the element to be searched";
    cin >> num;
    for (int i = 0; i < 10; i++)
    {
        if(*ptr == num)
        {
            cout << endl << "number is present in array" << endl;
            break;
        }

        ptr++; //increment the pointer to move to next array element
    }
    return 0;
}
```

## Assignment 2

Complete the following program

```
#include <iostream>
using namespace std;

int main()
{
    const char *p[4] = {"books",
                        "television",
                        "Computer",
                        "Sports"};

    //take from user what activity he likes
    //if activity provided is present in the list show "Available Activity"
    else show "Activity not available"
```

```

        return 0;
    }

    /*
    // const char *p = "student";
    // cout << p << endl;

    // int t = 10;
    // int *pt = &t;
    // cout << pt;

    // char charArray[10] = "test";
    // char *pc = charArray;
    // cout << pc << endl;

    // char c = 'A';
    // char *p = &c;
    // cout << c << endl;
    // cout << *p << endl;

    // char c[5] = "test";//{'t','e','s','t'};""
    // char *p = c;
    // cout << p << endl;
    */

```

## Assignment 3

Complete the following program

```

#include <iostream>
using namespace std;

class item
{
    int code;
    float price;
public:
    void getData(int a, float b);
    void show();
};

int main()
{
    item *p = new item[3];
    for (int i = 0; i < 3; i++)
    {
        //p->getData();
    }
}

```

```

        p++;
    }

    return 0;
}

```

## Assignment 4

Complete the following program

```

#include <iostream>
#include <cstring>
using namespace std;

class City
{
    char *name;
    int len;
public:
    City()
    {
        len = 0;
        name = new char[len+1];
    }
    void getname();//get the string from user , assign required memory,
copy the input string to name
    void print();
};

int main()
{
    City *ptr[10]; //Array of 10 pointers to cities
    ptr[0] = new City;
    ptr[0]->getname();
    return 0;
}

```

## Assignment 5

Complete the following program

```

#include <iostream>
using namespace std;

class Person
{
    char name[20];
    int age;
}

```

```

    public :
        Person(char *s, int a);
        void display();//this->age;
        Person & older(Person &x);//retrun *this
};
//Person & Person :: older(Person &x)

int main()
{
    Person p1("John", 35), p2("Ahmed", 29), p3("Hebber", 40);
    Person p = p1.older(p2);
    p.display();
    return 0;
}

```

## Assignment 6

Using pointer to a function print the factorial of an integer.

## Assignment 7

Using pointer to object swap private data members of two objects

## Assignment 8

Create Square class. Write a member function to get the bigger square. Using return \*this;

## Assignment 9

Define class String, Data member char \*c;

Constructor should allocate memory and assign the string provided by user to data member c.

Overload ~ operator for class String . see below the output Terminal -

Enter string : CPP Batch

~of the string : cpp bATCH

## Assignment 10

Create a dynamic array of employees.

Private Members –

    Name char\*

    Age int

    Salary float

Constructor should allocate memory to Name.

Ask user for size of the employee list

Member functions –     void AcceptData()

                        Void DisplayData()