# **16 FEBRUARY CODE**

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#### Q1. INCREMENTING A POINTER

```
1 #include<iostream>
2 using namespace std;
4 int POS=5;
6 int main(){
       cout<<"PRESENTION OF CODE BY : YASH_B65840"<<endl;</pre>
       cout<<endl;
       int arr[POS]={5,10,15,20,25};
       int (*ptr);
       ptr=arr;
       for(int i=0;i<POS;i++){</pre>
        cout<<"Address of arr["<<i<<"]=";</pre>
            cout<<ptr<<endl;</pre>
          cout<<"Value of arr["<<i<<"]=";</pre>
            cout<<*ptr<<endl;</pre>
            ptr++;
        return 0;
22 }
```

```
input

PRESENTION OF CODE BY: YASH_B65840

Address of arr[0]=0x7fff3ef94ba0

Value of arr[1]=0x7fff3ef94ba4

Value of arr[1]=10

Address of arr[2]=15

Address of arr[2]=15

Address of arr[3]=0x7fff3ef94bac

Value of arr[3]=0x7fff3ef94bac

Value of arr[4]=25

...Program finished with exit code 0

Press ENTER to exit console.
```

### **Q2. DECREMENTING A POINTER**

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

int POS=5;

int main(){
    cout<<"PRESENTATION OF CODE BY : YASH_B65840"<<endl;
    cout<\endl;
    int arr[POS]={15,30,45,60,75};
    int *ptr;
    ptr = &arr[POS-1];

for(int i=POS;i>0;i--){
        cout<<"Address of arr["<<i<"]= ";
        cout<<"ytor-<endl;
        cout<<"Yalue of arr["<<i<"]= ";|
        cout<<"ptr>
        arr [" > ptr = ";]
        cout<<"ptr>
        arr [" > ptr < i < "] = ";|
        cout<< "ytor-<endl;
        ptr - ;
        }
        return 0;
}</pre>
```

```
PRESENTATION OF CODE BY: YASH_B65840

Address of arr[5]= 0x7ffe3fa5f640

Value of arr[4]= 0x7ffe3fa5f63c

Value of arr[4]= 60
Address of arr[3]= 0x7ffe3fa5f638

Value of arr[3]= 45
Address of arr[2]= 0x7ffe3fa5f634

Value of arr[2]= 30
Address of arr[1]= 0x7ffe3fa5f630

Value of arr[1]= 15

...Program finished with exit code 0

Press ENTER to exit console.
```

### **Q3. POINTER COMPARISON**

```
#include<iostream>
2 using namespace std;
4 int POS=5;
6 int main(){
        cout<<"PRESENTATION OF CODE BY : YASH_B65840"<<endl;</pre>
        cout<<endl;</pre>
        int arr[POS]={15,30,45,60,75};
        int *ptr;
       ptr = &arr[POS-1];
        int i=4;
        while(ptr <= &arr[POS-1])</pre>
        {
            cout<<"Address of arr["<<i<<"]= ";</pre>
            cout<<pre>cout<<pre>cendl;
            cout<<"Value of arr["<<i<<"]= ";</pre>
            cout<<pre>cout<</pre>ptr<<endl;</pre>
            ptr--;
```

```
PRESENTATION OF CODE BY: YASH_B65840

Address of arr[4]= 0x7ffdbb1f4720

Value of arr[3]= 0x7ffdbb1f471c

Value of arr[3]= 60

Address of arr[2]= 0x7ffdbb1f4718

Value of arr[2]= 45

Address of arr[1]= 0x7ffdbb1f4714

Value of arr[1]= 30

Address of arr[0]= 0x7ffdbb1f4710

Value of arr[0]= 15
```

## **Q4. CLASS AND OBJECTS**

```
#include<iostream>
using namespace std;
4 class book{
         int book_id;
         int price;
8 public:
        void input(){
    cout<<"Enter book id: ";</pre>
              cin>>book_id;
cout<<"Enter book price: ";
              cin>>price;
        void display(){
              cout<<"The book id is "<<book_id<<" and "<<"The book price is "<<pre>price<<endl;
cout<<endl;</pre>
   };
int main(){
        cout<<"PRESENTATION OF CODE BY : YASH_B65840"<<endl;
cout<<endl;</pre>
         book b1,b2;
        b1.input();
b1.display();
        b2.input();
b2.display();
        b3.price=200;
cout<<b3.book_id<<" "<<b3.price<<endl;*/
```

```
PRESENTATION OF CODE BY: YASH_B65840

Enter book id: 12
Enter book price: 200
The book id: 12 and The book price is 200

Enter book id: 23
Enter book price: 800
The book id: 23 and The book price is 800

...Program finished with exit code 0
Press ENTER to exit console.
```

## **ERROR (ACCESSING PRIVATE DATA MEMBERS OUTSIDE CLASS)**

```
#include<iostream>
using namespace std;
 4 - class book{
         int book_id;
        int price;
 8 public:
        void input(){
   cout<<"Enter book id: ";</pre>
             cin>>book_id;
             cout<<"Enter book price: ";</pre>
             cin>>price;
         void display(){
             cout<<"The book id is "<<book_id<<" and "<<"The book price is "<<pre>rice<<end1;</pre>
18
19
20 };
21 - int main(){
         book b3;
         b3.book_id=3;
        b3.price=200;
cout<<b3.book_id<<" "<<b3.price<<endl;
```

```
Compilation failed due to following error(s).
```

```
nain.cpp:23:8: error: 'int book::book_id' is private within this context
23 | b3.book_id=3;
6 | int book_id;
| ^_____
main.cpp:24:8: error: 'int book::price' is private within this context
24 | b3.price=200;
6 | int book_id;

| ^~~~~~

main.cpp:25:31: error: 'int book::price' is private within this context
25 | cout<<b3.book_id<<" "<<b3.price<<end1;
    7 | int price;
```