

OOP-LAB Task 1

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Section : 2D

Qns1:

```
#include <iostream>
using namespace std;
int main ()
{
    int arr[5];
    int *ptr;
    ptr=arr;
    for(int i=0;i<5;i++)
    {
        *(ptr+i)=i+1;
    }
    for(int i=0;i<5;i++)
    {
        cout <<"The values of array are:"<< *(ptr+i)<<endl;
    }
    for(int i=0;i<5;i++)
    {
        *(ptr+i)=5-i;
        cout <<"The Reversed values of array are:"<< *(ptr+i)<<endl;
    }
    return 0;
}
```

The screenshot shows a code editor interface with a dark theme. At the top, there is a navigation bar with icons for back, forward, and search. Below the bar, there are tabs for multiple files: qns3.cpp, qns2.cpp labTask-1, qns1.cpp U, and qns2.cpp labtask-1.m.q U. The current file is qns2.cpp labtask-1.m.q U. The code itself is a C++ program that declares an array arr[5], initializes it with values 1 through 5, prints the original array, and then prints the reversed array.

```
1 #include <iostream>
2 using namespace std;
3 int main ()
4 {
5     int arr[5];
6     int *ptr;
7     ptr=arr;
8     for(int i=0;i<5;i++)
9     {
10         *(ptr+i)=i+1;
11     }
12     for(int i=0;i<5;i++)
13     {
14         cout <<"The values of arrray are:"<< *(ptr+i)<<endl;
15     }
16     for(int i=0;i<5;i++)
17     {
18         *(ptr+i)=5-i;
19         cout <<"The Reversed values of arrray are:"<< *(ptr+i)<<endl;
20     }
21     return 0;
22 }
```

Figure 1Code

Output:

The screenshot shows a terminal window with a dark theme. The tab bar at the top includes TERMINAL, SOURCE CONTROL, OUTPUT, DEBUG CONSOLE, PORTS, COMMENTS, PROBLEMS, and OPEN EDITORS. The terminal window displays the command PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> ./output being run three times. The output shows the array values from 1 to 5, followed by the reversed values from 5 down to 1.

```
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> ./output
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> g++ -g qns2.cpp -o ./output
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> ./output
The values of arrray are:1
The values of arrray are:2
The values of arrray are:3
The values of arrray are:2
The values of arrray are:2
The values of arrray are:3
The values of arrray are:4
The values of arrray are:5
The Reversed values of arrray are:5
The Reversed values of arrray are:4
The Reversed values of arrray are:3
The Reversed values of arrray are:2
The Reversed values of arrray are:1
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> 
```

Qns 1:

```
#include<iostream>

using namespace std;

void turns_one_other(int *c, int *d)

{

    int temp=*c;

    *c=*d;

    *d=temp;

}

int main()

{

    int a=5,b=10;

    int *p=&a,*p2=&b;

    turns_one_other(p,p2);

    cout<<"The Vale of a and b after swaping is :"<<*p<<" and "<<*p2<<endl;

}
```

```
labtask-1.m.q > qns1.cpp > main()

1 #include<iostream>
2 using namespace std;
3 void turns_one_other(int *c, int *d)
4 {
5     int temp=*c;
6     *c=*d;
7     *d=temp;
8 }
9 int main()
10 {
11     int a=5,b=10;
12     int *p=&a,*p2=&b;
13     turns_one_other(p,p2);
14     cout<<"The Vale of a and b after swaping is :"<<*p<<" and "<<*p2<<endl;
15 }
```

Output:

```
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> g++ -g qns1.cpp -o ./output
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> ./output
The Vale of a and b after swaping is :10 and 5
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-1.m.q> █
```