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## Lab Manual 3:

### Home Task:

#### Question 1:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.     char x;
5.     cout<<"Please input s for Sindh, p for punjab, k for KPK, b for
    balochistan"<<endl;
6.     cin>>x;
7.     switch(x){
8.         case 's':
9.             cout<<" The population od Sindh is 47,854,510";
10.            break;
11.        case 'p':
12.            cout<<"The population of Punjab is 109,989,655";
13.            break;
14.        case 'k':
15.            cout<<"The population of KPK is 30,508,920";
16.            break;
17.        case 'b':
18.            cout<<"The population of Balochistan is 12,335,129";
19.            break;
20.    }
21.}
```

```
C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\lab manual 3 home task question 6.exe
Please input s for Sindh, p for punjab, k for KPK, b for balochistan
p
The population of Punjab is 109,989,655
-----
Process exited after 2.702 seconds with return value 0
Press any key to continue . . .
```

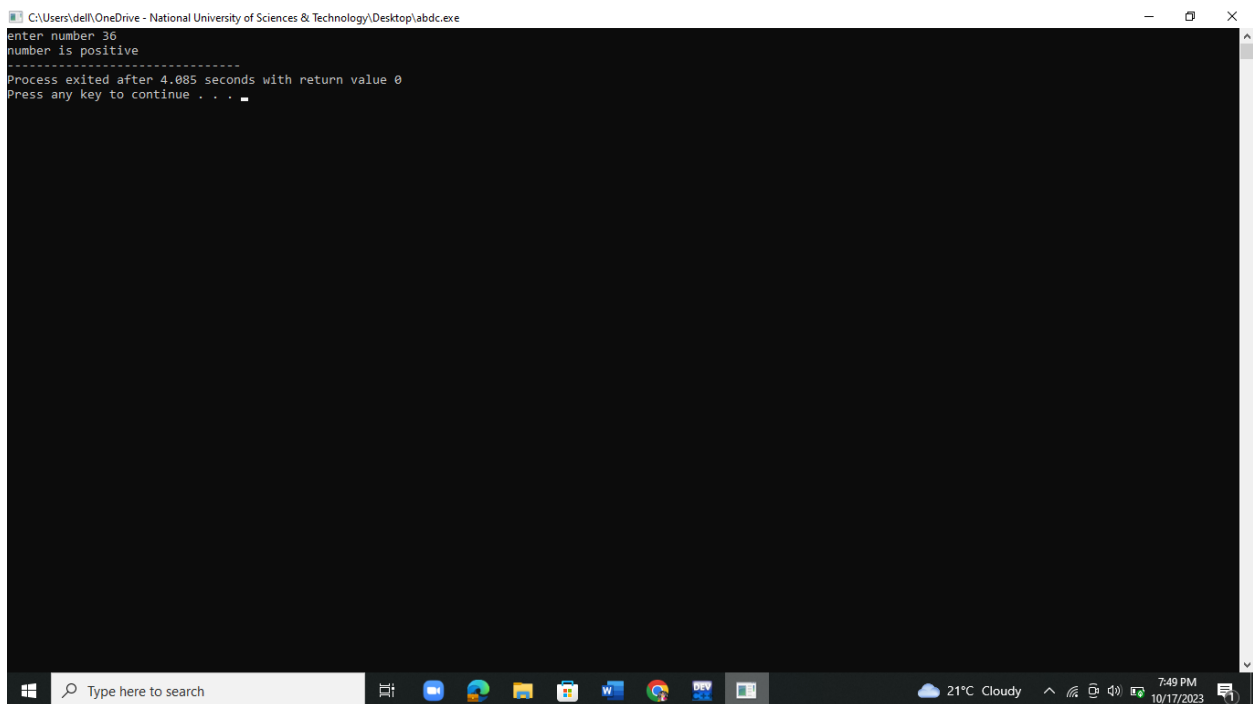
## Question 2:

1. `#include <iostream>`
2. `using namespace std;`
3. `int main(){`
4.       `char alpha;`
5.       `cout<<"Enter alphabet";`
6.       `cin>>alpha;`
7. `switch (alpha){`
8.       `case 'a':`
9.             `cout<<"Vowel";`
10.            `break ;`
11.       `case 'e':`
12.             `cout<<"Vowel";`
13.            `break ;`
14.       `case 'i':`
15.             `cout<<"Vowel";`
16.            `break;`

```
17.         case 'o':
18.             cout<<"Vowel";
19.             break;
20.         case 'A':
21.             cout<<"Vowel";
22.             break;
23.         case 'E':
24.             cout<<"Vowel";
25.             break;
26.         case 'I':
27.             cout<<"Vowel";
28.             break;
29.         case 'O':
30.             cout<<"Vowel";
31.             break;
32.         case 'U':
33.             cout<<"Vowel";
34.             break;
35.         default:
36.             cout<<"Consonant";
37.             break;
38.     }
39. }
```



```
19.                 cout<<"number is positive";
20.
21.             }
22.
23.
24.     }
25.
26.
27.
28. }
```



```
C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\abdc.exe
enter number 36
number is positive
-----
Process exited after 4.085 seconds with return value 0
Press any key to continue . . .
```

## Question 4:

```
1. #include <iostream>
2. using namespace std;
3. int main (){
4.     int x;
5.     cout<<"Enter age";
6.     cin>>x;
```

```

7.         if (x>0){
8.         if (x>=13&& x<=19){
9.         cout<<"Teenager";
10.        }
11.        else if (x>0&& x<13){
12.            cout<<"Child";
13.        }
14.        else{
15.            cout<<"Adult";
16.        }
17.
18.        }
19.        else { cout<<"Invalid age please re-enter";
20.        }
21.
22.}

```

```

C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\Untitled5.exe
Enter age 90
Adult
-----
Process exited after 2.512 seconds with return value 0
Press any key to continue . . .

```

## Question 5:

1. `#include <iostream>`

```
2. using namespace std;
3. int main(){
4.     int x,y,z;
5.     cout<<"enter first number";
6.     cin>>x;
7.     cout<<"enter second number";
8.     cin>>y;
9.     cout<<"enter thid number";
10.    cin>>z;
11.    if (x>y&&x>z){
12.        cout<<"The first number is the greatest";
13.    }
14.    else {
15.        if (y>x&&y>z){
16.            cout<<"The second number is the greatest";
17.        }
18.        else { cout<<"The third number is the greatest";
19.        }
20.    }
21.}
```

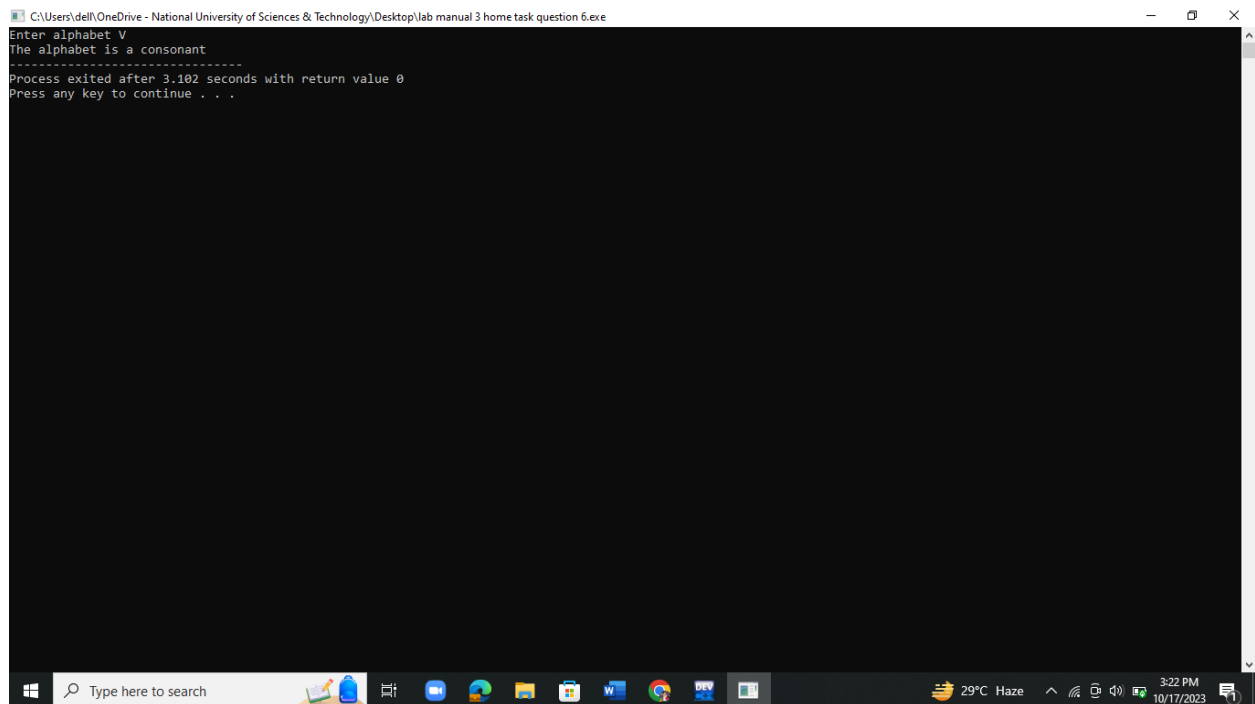
C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\Untitled8.exe

```
enter first number 90
enter second number 99
enter thid number 23
The second number is the greatest
```

```
-----
Process exited after 5.82 seconds with return value 0
Press any key to continue . . .
```

## Question 6:

1. `#include <iostream>`
2. `using namespace std;`
3. `int main(){`
4. `char x;`
5. `cout<<"Enter alphabet";`
6. `cin>>x;`
7. `if(x){`
8. `if(x=='a' || x=='e' || x=='i' || x=='o' || x=='u' || x=='A' || x=='E' || x=='I' || x=='O' || x=='U'){`
9. `cout<<"The alphabet is a vowel";`
10. `}`
11. `else {cout<<"The alphabet is a consonant";`
12. `}`
13. `}`
14. `}`



```
C:\Users\dell\OneDrive - National University of Sciences & Technology\Desktop\lab manual 3 home task question 6.exe
Enter alphabet V
The alphabet is a consonant
-----
Process exited after 3.102 seconds with return value 0
Press any key to continue . . .
```