Data Sructure

Assignment 01 part 2

3rd Semester



Fall 2024

Submitted by

Name: Adeel Qaiser Class No : 151

Class Section: C

Date:07 / 10 / 2024

Submitted to:

Engr Waseem Ullah Khan

Institute of Computer Sciences & Information Technology (ICS/IT)

Faculty of Management and Computer Sciences (FMCS) The University of Agriculture, Peshawar

Task: 05

Input:

```
Pointer.cpp

#include <iostream>
using namespace std;

void swap ( int* a, int* b ) {
    int temp = *a;
    *a = *b;
    *b = temp;

}

int main ( ) {
    int firstvalue , secondvalue ;

cout << " Enter the first value : ";
    cin >> firstvalue;
    cout<< " Enter the second value : ";
    cin >> secondvalue;

swap ( &firstvalue , &secondvalue) ;

swap ( &firstvalue , &secondvalue) ;

cout << " \nvalues after exchange \n";
    cout << " \first value: " <<first value <<end];
    cout << " second value: " <<secondvalue << end];

return 0 ;
}
```

Output:

```
Enter the first value : 45

Enter the second value : 65

values after exchange
First value: 65
second value: 45

Process exited after 4.641 seconds with return value 0
Press any key to continue . . .
```

Task: 06

Input:

```
Pointer.cpp [*] Fahrenheit.cpp
1 #include <iostream>
     using namespace std;
4 ☐ void convertToCelsius( float*fahrenheit, float* Celsius ) {
5 T }
         *Celsius = ( *fahrenheit -32) * 5.0 /9.0;
7 int main () { float fahrenheit , celsius ;
         cout << " Enter the temperature in Fahrenheit: ";
10
         cin >> fahrenheit;
11
12
         convertToCelsius( &fahrenheit, &celsius);
13
14
         cout << " Temperature in Celsius: " << celsius << endl;
15
16
17
18
```

Output:

```
C:\Users\kpk laptop\Pictures\Fahrenheit.exe

Enter the temperature in Fahrenheit: 85

Temperature in Celsius: 29.4444

-----

Process exited after 17.93 seconds with return value 0

Press any key to continue . . . _
```

Task: 07

Input:

```
Pointer.cpp Fahrenheit.cpp prime number.cpp stucture.cpp
1 #include <iostream>
       #include <string>
      using namespace std;
 5 ☐ struct student {
 6
            string name ;
             int roll ;
 8
             float marks ;
 9 L };
10
11 = int main ( ) {
12
             student student;
13
             cout << " Enter name: ";
14
15
             getline(cin, student.name);
             cout << " Enter roll number :";
16
             cin >> student . roll;
cout<< " Enter marks: ";</pre>
17
18
19
             cin >> student . marks;
20
            cout << "\nData Entered by the user :\n";
cout << " Name: " << student . name <<endl;
cout << " Roll Number: "<< student . roll << endl;
cout << " Marks: "<<student . marks << endl;</pre>
21
22
23
24
25
      1
             return 0 ;
26
27 L }
```

Output:

```
Enter name: Rashid Hussain
Enter roll number :313
Enter marks: 88

Data Entered by the user :
Name: Rashid Hussain
Roll Number: 313
Marks: 88

Process exited after 38 seconds with return value 0
Press any key to continue . . . _
```