Lab Manual #03

"Home Tasks"



Course: Fundamentals of Programming (CS 114)

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```
#include <iostream>
using namespace std;
int main()
1
    char province;
   cout << "Enter \np for Punjab \ns for Sindh \nk for KPK \nb for Balochistan \n=> ";
   cin >> province;
    switch (province)
    case 'p':
       cout << "Population of Punjab is 127 Million People";</pre>
   case 's':
       cout << "Population of Sindh is 54 Million People";</pre>
        break;
   case 'k':
       cout << "Population of KPK is 40 Million People";</pre>
       break;
       cout << "Population of Balochistan is 21 Million People";</pre>
   default:
       cout << "Incorrect Input";</pre>
       break;
    return 0;
```

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task1.exe
Enter
p for Punjab
s for Sindh
k for KPK
b for Balochistan
=> p
Population of Punjab is 127 Million People
```

```
Task2cpp > © main()

#include <iostream>

using namespace std;
    int main()
          char letter;
cout << "Enter Letter \n=> ";
cin >> letter;
           switch (letter)
          Case 'a':
             cout << "Vowel";
break;</pre>
             cout << "Vowel";
break;
             cout << "Vowel";
break;
             cout << "Vowel";
break;
        case 'u':
    cout << "Vowel";
    break;</pre>
        case 'A':
    cout << "Vowel";
    break;</pre>
         case 'E':
    cout << "Vowel";
    break;</pre>
           cout << "Vowel";
break;
           cout << "Vowel";
break;
           cout << "Vowel";
break;
          default:
           cout << "Consonant";
break;</pre>
           return 0;
```

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task2.exe
Enter Letter
-> a
Vowel
```

```
G Task3.cpp > 

main()
     int main()
          int num;
cout << "Enter Number \n=> ";
          cin >> num;
          switch (num > 0)
          cout << "Positive";
              break;
        case 0:
             switch (num < 0)
              cout << "Negative";
return 0;
break;</pre>
              case 0:
                cout << "Zero";
return 8;
break;
              default:
                 cout << "Incorrect Input";</pre>
                 break;
         default:
            cout << "Incorrect Input";</pre>
           return θ;
```

Output

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task3
Enter Number
-> 0
Zero
```

Task 4

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main() {
6    int age;
7    cout << "Enter Age: ";
8    cin >> age;
9
10    if (age >= 18) {
11         cout << "Adult" << endl;
12    } else if (age >= 13) {
13         cout << "Teenager" << endl;
14    } else {
15         cout << "Child" << endl;
16    }
17
18    return 0;
19  }
20</pre>
```

Output

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task4
Enter Age: 19
Adult
```

Task 5

```
G Task5.cpp > ⊕ main()
 1 #include <iostream>
     using namespace std;
      int main() {
        double num1, num2, num3;
         cout << "First number: ";</pre>
        cin >> num1;
        cout << "Second number: ";
        cin >> num2;
cout << "Third number: ";</pre>
         cin >> num3;
         if (num1 >= num2) {
             if (num1 >= num3) {
                  cout << "Greatest number is: " << num1 << end1;</pre>
              } else {
                  cout << "Greatest number is: " << num3 << end1;</pre>
             if (num2 >= num3) {
                  cout << "Greatest number is: " << num2 << endl;</pre>
                  cout << "Greatest number is: " << num3 << endl;</pre>
          return 0;
```

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task5
First number: 13
Second number: 16
Third number: 31
Greatest number is: 31
```

```
PS C:\Users\muham\Documents\Fundamentals of Programming\FOP-Lab-Abdullah> ./Task6
Letter: e
Vowel.
```