National University of Sciences and Technology (NUST) Department of Mechanical Engineering (SMME)



Fundamentals of Programming (FOP)

Home Tasks

Lab Manual 3

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```
#include <iostream>
using namespace std;
int main() {
int p;
cout << "Enter Province name: 1 for Punjab, 2 for Sindh, 3 for KPK and 4 for
Balochistan" << endl;
cin>>p;
switch(p){
       case 1:
              cout << "Population of Punjab is 127,474,000";
              break;
       case 2:
              cout << "Population of Sindh is 54,858,515";
              break;
       case 3:
              cout << "Population of KPK is 39,372,462";
              break;
       case 4:
              cout << "Population of Balochistan is 20,094,659";
              break;
       default:
              cout << "INVALID";
}
Return 0;
}
```

```
#include <iostream>
using namespace std;
int main() {
char x;
cout<<"Enter an Alphabet:"<<endl;</pre>
cin>>x;
switch(x){
        case 'a':
                cout<<"This is a vowel";</pre>
                break;
        case 'e':
                cout<<"This is a vowel";</pre>
                break;
        case 'i':
                cout<<"This is a vowel";</pre>
                break;
        case 'o':
                cout<<"This is a vowel";</pre>
                break;
        case 'u':
                cout<<"This is a vowel";</pre>
                break;
        default:
                cout<<"This is a consonant";</pre>
Return 0;
}
```

```
#include <iostream>
using namespace std;
int main() {
int num,x;
cout<<"Enter a Number"<<endl;
cin>>num;
if(num<0){
       x=1;
       }
       else if(num>0){
               x=2;
       }
       else{
               x=3;
       }
       switch(x){
       case 2:
               cout<<"Positive";</pre>
               break;
       case 1:
               cout<<"Negative";</pre>
               break;
       case 3:
               cout<<"This is equal to zero";</pre>
          break;
Return 0;
}
```

```
#include <iostream>
using namespace std;
int main() {
int age;
cout << "Enter Age" << endl;
cin>>age;
if(age<=12&&age>0){
       cout<<"This is a Child";</pre>
}
else
{
       if(age>12&&age<=19){
               cout<<"This is a Teenager";</pre>
       }
       else
       if(age>19&&age<=100){
               cout<<"This is an adult";</pre>
       }
          else {
               cout<<"You should not exist";</pre>
       }
}
Return 0;
```

```
#include <iostream>
using namespace std;
int main() {
int x,y,z;
cout<<"Enter x"<<endl;</pre>
cin>>x;
cout<<"Enter y"<<endl;</pre>
cin>>y;
cout << "Enter z" << endl;
cin>>z;
if(x>y\&\&x>z){
       cout<<x<" is the greatest";</pre>
}
else
{
       if(y>x\&\&y>z){
               cout<<y<" is the greatest";</pre>
        }
       else{
               if(z>x\&\&z>y){
                       cout << z << " is the greatest";
       else{
               cout<<"INVALIID";</pre>
        }
}
Return 0; }
```

```
#include <iostream>
using namespace std;
int main() {
char x;
cout<<"Enter an Alphabet:"<<endl;</pre>
cin>>x;
if(x=='a'){
        cout<<"This is a vowel";</pre>
}
else
{
       if(x=='e')
                cout<<"This is a vowel";</pre>
        }
        else{
                if(x=='i'){
                        cout<<"This is a vowel";</pre>
                }
                else{
                        if(x=='o')
                                cout<<"This is a vowel";</pre>
                        }
                        else\{
                                if(x=='u'){
                                         cout<<"This is a vowel";</pre>
                                 }
                                else{
                                         cout<<"This is a consonant";</pre>
```

```
}
}

return 0;
```

}