



# NUST

NATIONAL UNIVERSITY  
OF SCIENCES & TECHNOLOGY

## **FUNDAMENTALS OF PROGRAMMING**

### **ASSIGNMENT # 3**

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**CLASS:ME-15**

**SECTION:B**

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**//TASK 1**

```
//#include <iostream>
```

```
//using namespace std;
```

```
//int main()
//{
//    char province;
//    cout<<"Enter first letter of the province : ";
//    cin>>province;
//    switch(province){
//
//
//        case 'p':
//            cout<<"The population of Punjab is 120 million.";
//            break;
//
//            case 's':
//                cout<<"The population of Sindh is 47.89 million.";
//                break;
//
//            case 'b':
//                cout<<"The population of Balochistan is 21.7 million.";
//                break;
//
//            case 'k':
//                cout<<"The population of KPK is 35.53 million.";
//                break;
//
//            case 'g':
//                cout<<"The population of Gilgit Baltistan is 1.5 million.";
//                break;
//
//    }
//    return 0;
//}
```

```
Enter first letter of the province : b
The population of Balochistan is 21.7 million.
-----
Process exited after 1.157 seconds with return value 0
Press any key to continue . . .
```

```
Enter first letter of the province : g
The population of Gilgit Baltistan is 1.5 million.
-----
Process exited after 2.525 seconds with return value 0
Press any key to continue . . .
```

```
Enter first letter of the province : k
The population of KPK is 35.53 million.
-----
Process exited after 1.926 seconds with return value 0
Press any key to continue . . .
```

```
Enter first letter of the province : p
The population of Punjab is 120 million.
-----
Process exited after 4.699 seconds with return value 0
Press any key to continue . . .
```

```
Enter first letter of the province : s
The population of Sindh is 47.89 million.
-----
Process exited after 1.167 seconds with return value 0
Press any key to continue . . .
```

// \_\_\_\_\_

//

## TASK 2

//#include <iostream>

//using namespace std;

//int main()

//{

//

//

//

//

//

```
char letter; cout<<"Input the letter :  
";    cin>>letter;    switch(letter){  
case'a':case'e':case'i':case 'o':case'u':
```

```

//
//
//
//
//
        cout<<"It's a vowel.";
        break;
default:
        cout<<"It's a consonant.";
        break;
//    }
//    return 0;
//}

```

```

Input the letter : s
It's a consonant.
-----
Process exited after 3.479 seconds with return value 0
Press any key to continue . . .

```

```

Input the letter : e
It's a vowel.
-----
Process exited after 1.249 seconds with return value 0
Press any key to continue . . .

```

```

//_____

```

### //TASK 3

```

//#include <iostream>

```

```

//using namespace std;

```

```

//int main()

```

```

//

```

```

//

```

```

//

```

```

//

```

```

//

```

```

//
//
//
//
//
//{
//    int num;
//    cout<<"Enter your number : ";
//    cin>>num;
//    switch(num<0){ case
//
//        true :
//
//            cout<<"The number is negative.";
//            break;}
//    switch(num>0){
//    case true :
//
//        cout<<"The number is positive.";
//        break;}
//    switch(num==0){ case
//
//        true:
//
//        cout<<"The number is equal to zero.";
//        break; }
//    return 0;
//}

```

```

//
//
//
//
//

```

```
//  
//  
//  
//  
//
```

```
Enter your number : 0  
The number is equal to zero.  
-----  
Process exited after 0.829 seconds with return value 0  
Press any key to continue . . .
```

```
Enter your number : -9  
The number is negative.  
-----  
Process exited after 4.103 seconds with return value 0  
Press any key to continue . . .
```

```
Enter your number : 4  
The number is positive.  
-----  
Process exited after 3.667 seconds with return value 0  
Press any key to continue . . .
```

```
//
```

---

## //TASK 4

```
//#include <iostream>  
//using namespace std;  
//int main(){  
    int age; cout<<"Enter  
    the age : "; cin>>age;  
    if(age<=18) if(age<=12)  
        cout<<"This person is a child."; else{  
//  
//  
//  
//  
//
```

```

//
//
//
//
//
    cout<<"This person is a teenager.";
}
else{
//
    cout<<"This person is an adult.";
//
}
//return 0;
//}

```

```

Enter the age : 7
This person is a child.
-----
Process exited after 1.846 seconds with return value 0
Press any key to continue . . .

```

```

Enter the age : 18
This person is a teenager.
-----
Process exited after 4.237 seconds with return value 0
Press any key to continue . . .

```

```

Enter the age : 40
This person is an adult.
-----
Process exited after 3.972 seconds with return value 0
Press any key to continue . . .

```

```

//_____

```

```

//
//
//
//
//

```



```
//
```

```
//
```

```
//
```

```
//
```

```
//
```

## **//TASK 5**

```
//#include <iostream>
```

```
//using namespace std;
```

```
//int main(){
```

```
    int a,b,c; cout<<"Enter
```

```
    a : "; cin>>a;
```

```
    cout<<"Enter b : ";
```

```
//
```

```
//
```

```
//
```

```
//
```

```
//
```

```

        cin>>b;

        cout<<"Enter c : ";
        cin>>c; if(a>b)
//      if(a>c)
//      cout<<a<<" is the largest number.";
//      else{
//          cout<<c<<" is the largest number.";
//      }
//      else{
//          if(a<b)
//          if(b>c)
//          cout<<b<<" is the largest number.";
//          else{
//              cout<<c<<" is the largest number.";
//          }
//      }
//      return 0;
//}

```

```

Enter a : 6
Enter b : 8
Enter c : 5
8 is the largest number.
-----
Process exited after 4.928 seconds with return value 0
Press any key to continue . . .

```

```
//
```

---

## //TASK 6

```

//#include <iostream>

//using namespace std ;

//int main()

```

```

//
//
//
//
//
//{
//    char letter;
//    cout<<"Input your letter : ";
//    cin>>letter;
//    if((letter=='a' || letter=='e' || letter=='i' || letter=='o' || letter=='u' || letter=='A' || letter=='E'
|| letter=='l' || letter=='O' || letter=='U')){
//
//
//
//
//        cout<<"The letter "<<letter<<" is a vowel.";
//    }
//    else{cout<<"The letter "<<letter<<" is a consonant.";
//        }
//        return 0;
//}

```

```

Input your letter : q
The letter q is a consonant.
-----
Process exited after 1.511 seconds with return value 0
Press any key to continue . . .

Input your letter : O
The letter O is a vowel.
-----
Process exited after 4.137 seconds with return value 0
Press any key to continue . . .

```

```

//

```

---