



DEPARTMENT OF MECHANICAL ENGINEERING

Subject: Fundamentals of Programming

Assignment No. 3

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FIRST PROGRAM

```
#include<iostream>
using namespace std;
int main(){
       char province;
       cout<<"ENTER PROVINCE NAME YOU WANTED TO KNOW POPULATION "<<endl;
       cout<<"p for punjab"<<endl;
       cout<<"s for sindh"<<endl;
       cout<<"k for kpk"<<endl;
       cout<<"b for balochistan"<<endl;</pre>
       cin>>province;
       switch(province){
              case 'p':
                     cout<<"THE POPULATION OF PUNJAB IS 127,474,000";
                     break;
              case 's':
              cout<<"THE POPULATION OF SINDH IS 54,858,515";
              break;
              case 'k':
              cout<<"THE POPULATION OF kpk IS 40.8 million";
              break;
              case 'b':
              cout<<"THE POPULATION OF BALOCHISTAN IS 21.7 million";
              break;
       }
return 0;
}
```

SECOND PROGRAM

```
#include<iostream>
using namespace std;
int main(){
    char alphabet;
    cout<<"ENTER ANY ALPHABET"<<endl;
    cin>>alphabet;
    switch(alphabet){
        case 'a':
        case 'e':
        case 'i':
        case 'o':
        case 'u':
        cout<<"IT IS VOWEL";
        break;
        default:
```

```
cout<<"IT IS CONSONANT";
}

ENTER ANY ALPHABET
```

a
IT IS VOWEL
----Process exited after 2.624 seconds with return value 0
Press any key to continue . . . _

```
ENTER ANY ALPHABET
e
IT IS VOWEL
------
Process exited after 1.38 seconds with return value 0
Press any key to continue . . . _
```

```
ENTER ANY ALPHABET

u
IT IS VOWEL
-----
Process exited after 1.379 seconds with return value 0
Press any key to continue . . . _
```

```
ENTER ANY ALPHABET

q
IT IS CONSONANT
Process exited after 1.664 seconds with return value 0
Press any key to continue . . .
```

THIRD PROGRAM

```
#include<iostream>
using namespace std;
int main(){
    int number;
    cout<<"ENTER ANY NUMBER :"<<endl;
    cin>>number;
    switch (number>0){
        case 1:
        cout<<"THE NUMBER IS POSITIVE"<<endl;</pre>
```

```
break;
      case 0:
             switch(number<0){
                   case 1:
             cout<<"THE NUMBER IS NEGATIVE"<<endl;
             break;
              case 0:
                   cout<<"THE NUMBER IS ZERO"<<endl;</pre>
                   break;
      }
      break;
}
return 0;
}
ENTER ANY NUMBER :
THE NUMBER IS POSITIVE
Process exited after 3.99 seconds with return value 0
Press any key to continue . . .
```

```
ENTER ANY NUMBER:

0
THE NUMBER IS ZERO
-----
Process exited after 1.313 seconds with return value 0
Press any key to continue . . .
```

```
ENTER ANY NUMBER:
-3
THE NUMBER IS NEGATIVE
------
Process exited after 2.269 seconds with return value 0
Press any key to continue . . . _
```

FOURTH PROGRAM

```
#include<iostream>
using namespace std;
int main(){
    int a;
    cout<<"ENTER YOUR AGE IN YEARS"<<endl;
    cin>>a;
    if(a>=20){
```

```
cout<<"YOU ARE ADULT";</pre>
      } else {
      if (a <=19 && a >=13){
             cout<<"YOU ARE STILL TEENAGER";
      } else {
             cout<<"YOU ARE CHILD";
      }
}
}
ENTER YOUR AGE IN YEARS
12
YOU ARE CHILD
Process exited after 3.195 seconds with return value 0
Press any key to continue . . . _
```

```
ENTER YOUR AGE IN YEARS

15
YOU ARE STILL TEENAGER

Process exited after 5.607 seconds with return value 0
Press any key to continue . . . .
```

```
ENTER YOUR AGE IN YEARS
21
YOU ARE ADULT
------
Process exited after 3.111 seconds with return value 0
Press any key to continue . . . _
```

FIFTH PROGRAM

```
#include<iostream>
using namespace std;
int main(){
    int m,n,b,greatest;
    cout<<"ENTER FIRST NUMBER"<<endl;
    cin>>m;
    cout<<"ENTER THE SECOND NUMBER"<<endl;
    cin>>n;
    cout<<"ENTER THE THIRD NUMBER"<<endl;
    cin>>b;
if (m > n) {
    greatest = m;
} else {
if (n > b) {
```

```
ENTER FIRST NUMBER

17
ENTER THE SECOND NUMBER

56
ENTER THE THIRD NUMBER

43
THE GREATEST NUMBER IS 56

Process exited after 9.817 seconds with return value 0

Press any key to continue . . .
```

```
ENTER FIRST NUMBER
67
ENTER THE SECOND NUMBER
45
ENTER THE THIRD NUMBER
23
The greatest number is: 67

Process exited after 4.012 seconds with return value 0
Press any key to continue . . .
```

SIXTH PROGRAM

ENTER ANY ALPHABET
a IT IS VOWEL
Process exited after 15.73 seconds with return value 0 Press any key to continue

ENTER ANY ALPHABET

w
IT IS CONSONANT
----Process exited after 2.289 seconds with return value 0
Press any key to continue . . .