



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;
      float p, k, s, b;
      cout<<"write p to check the population of punjab"<<endl;
      cout<<"write s to check the population of sindh"<<endl;
      cout<<"write k to check the population of kpk"<<endl;
      cout<<"write b to check the population of balochistan"<<endl;</pre>
      cin>>province;
      switch(province){
      case 'p':
      cout<<"the population of punjab is 127,474,000";
      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;
      case 's':
      cout<<"the population of sindh is 54,858,515";
      break;
      }
      return 0;
```

SECOND PROGRAM

```
#include<iostream>
using namespace std;
int main(){
char letter;
cout<<"Enter any letter"<<endl;
cin>>letter;
switch(letter){
      case 'a':
      case 'e':
      case 'i':
      case 'o':
      case 'u':
      cout<<"It is vowel";
      break;
      default:
      cout<<"It is consonant";
```

```
break;
}
return 0;
}
```

```
Enter any letter
u
It is vowel
-----
Process exited after 1.841 seconds with return value 0
Press any key to continue . . . _
```

```
Enter any letter
c
It is consonant
-----
Process exited after 3.851 seconds with return value 0
Press any key to continue . . .
```

THIRD PROGRAM

```
#include<iostream>
using namespace std;
int main(){
int n;
cout<<"Enter number :"<<endl;
cin>>n;
switch (n>0){
case 1:
cout<<"The number is positive"<<endl;
break;</pre>
```

```
case 0:
switch(n<0){
case 1:
cout<<"The number is negative"<<endl;
break;
case 0:
cout<<"The number is 0"<<endl;
break;
}
break;
}
return 0;</pre>
```

```
Enter number :

2
The number is positive

-----
Process exited after 1.008 seconds with return value 0
Press any key to continue . . . _
```

```
Enter number :
-8
The number is negative
-----
Process exited after 4.021 seconds with return value 0
Press any key to continue . . . _
```

```
Enter number :
0
The number is 0
-----
Process exited after 3.026 seconds with return value 0
Press any key to continue . . . _
```

FOURTH PROGRAM

```
#include<iostream>
using namespace std;
int main(){
int age;
cout<<"Enter your age"<<endl;</pre>
cin>>age;
if(age >= 20){
cout<<"You are adult";</pre>
} else {
if (age <=19 && age >=13){
cout<<"You are teenager";</pre>
} else {
cout<<"You are child";</pre>
return 0;
       }
}
```

OUTPUT

```
Enter your age
20
You are adult
-----
Process exited after 5.824 seconds with return value 0
Press any key to continue . . . <u>-</u>
```

```
Enter your age

18

You are teenager
-----
Process exited after 4.556 seconds with return value 0

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

```
Enter your age
23
You are adult
-----
Process exited after 3.219 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) {
  greatest = n;
} else {
  greatest = b;
}
}
cout << "The greatest number is: " << greatest << endl;
return 0;
}</pre>
```

SIXTH PROGRAM

```
#include<iostream>
using namespace std;
int main(){
char a;
cout<<"Enter any letter"<<endl;</pre>
```

```
cin>>a;
if(a == 'a' || a == 'e' || a == 'i' || a == 'o' |a ==
'u'){
  cout<<"IT IS VOWEL";
} else {
  cout<<"IT IS CONSONANT";
}
return 0;
}</pre>
```

```
Enter any letter
N
IT IS CONSONANT
-----
Process exited after 2.83 seconds with return value 0
Press any key to continue . . . _
```

```
Enter any letter
e
IT IS VOWEL
-----
Process exited after 3.208 seconds with return value 0
Press any key to continue . . .
```