Switch Statement

Switch case statements are a substitute for long if statements that compare a variable to multiple values. After a match is found, it executes the corresponding code of that value case.

Syntax:

```
switch (n)
{
    case 1:  // code to be executed if n == 1;
    break;

    case 2:  // code to be executed if n == 2;
    break;

    default:  // code to be executed if n doesn't match any of the above cases
}
```

- The variable in switch should have a constant value.
- The break statement is optional. It terminates the switch statement and moves control to the next line after switch.
- If break statement is not added, switch will not get terminated and it will continue onto the next line after switch.
- Every case value should be unique.
- Default case is optional. But it is important as it is executed when no case value could be matched.



Examples

Ques1. Write a program to write a simple calculator.

```
#include <iostream>
using namespace std;
int main() {
   int n1, n2;
   char op;
   cout<<"Enter 2 numbers: ";</pre>
   cin>>n1>>n2;
   cout<<"Enter operand: ";</pre>
   cin>>op;
   switch (op)
       cout<<n1+n2<<endl;
       cout<<n1-n2<<endl;</pre>
       break;
   case '*':
       cout<<n1*n2<<endl;
     break;
   case '/':
       cout<<n1/n2<<endl;</pre>
       break;
   case '%':
        cout<<n1%n2<<endl;</pre>
       break;
   default:
       cout<<"Operator not found!"<<endl;</pre>
```

}

Ques2. Write a program to find whether an alphabet is a vowel or a consonant.

```
#include <iostream>
using namespace std;
int main() {
   cin>>c;
   switch (c)
   case 'a':
       cout<<"It is a vowel"<<endl;</pre>
       cout<<"It is a vowel"<<endl;</pre>
       break;
   case 'i':
       cout<<"It is a vowel"<<endl;</pre>
       break;
   case 'o':
       cout<<"It is a vowel"<<endl;</pre>
       break;
       cout<<"It is a vowel"<<endl;</pre>
       break;
   default:
        cout<<"It is a consonant"<<endl;</pre>
       break;
   return 0;
```

