

Different Types of Selection Statements and Their Structure

// 1.) If Statement

```
if( expression )  
    statement;
```

```
char choice;  
  
cout << "\nDo you want to output something? (Y/N): ";  
cin >> choice;  
  
if (choice == 'y' || choice == 'Y')  
    cout << "\nYour choice was yes.\n";
```

// 2.) Expanded If Statement

```
if( expression )  
{  
    statement1;  
    statement2;  
    ....  
    statementn;  
}
```

```
char choice;  
  
cout << "\nDo you want to output multiple somethings? (Y/N): ";  
cin >> choice;  
  
if (choice == 'y' || choice == 'Y')  
{  
    cout << "\nYou choice was yes.";  
    cout << "\nThis is another line of something.\n";  
}
```

// If/Else Statement

```
if( expression )  
{  
    statement1;  
    statement2;  
    ....  
    statementn;  
}  
else  
{  
    statement1;  
    statement2;  
    ....  
    statementn;  
}
```

```
char choice;  
  
cout << "\nDo you want to output multiple somethings? (Y/N): ";  
cin >> choice;  
  
if (choice == 'y' || choice == 'Y')  
{  
    cout << "\nYou choice was yes.";  
    cout << "\nThis is another line of something.\n";  
}  
else  
{  
    cout << "\nYou choice was: " << choice << endl;  
}
```

// If/Else if Statement

```
if( expression )
{
    statement1;
    statement2;
    ....
    statementn;
}
else if ( expression )
{
    statement1;
    statement2;
    ....
    statementn;
}
else
{
    statement1;
    statement2;
    ....
    statementn;
}
```

```
char choice;

cout << "\nDo you want to output multiple somethings? (Y/N): ";
cin >> choice;

if (choice == 'y' || choice == 'Y')
{
    cout << "\nYou choice was yes.";
    cout << "\nThis is another line of something.";
}
else if (choice == 'n' || choice == 'N')
{
    cout << "\nYour choice was No.";
}
else
{
    cout << "\nYour choice was: " << choice << endl;
}
```

// Switch Statement

```
switch ( expression )
{
    case expression1:
        statement1;
        break;
    case expression2:
        statement2;
        break;
    ....
    case expressionN:
        statementN;
        break;
    default:
        statement;
}
```

```
char choice;

cout << "\nEnter either A, B, or C: ";
cin >> choice;

switch (choice)
{
    case 'a':
    case 'A':
        cout << "\nYou entered " << choice << endl;
        break;
    case 'b':
    case 'B':
        cout << "\nYou entered " << choice << endl;
        break;
    case 'c':
    case 'C':
        cout << "\nYou entered " << choice << endl;
        break;
    default:
        cout << "\nError! Please enter either A, B, or C.\n";
}
```