

Simple Calculator

```
1  #include <iostream>
2  using namespace std;
3
4  int main(int argc, char** argv) {
5
6      //Simple Cal
7      float x, y;
8      cin>>x>>y;
9      //
10     char operat;
11     cin>>operat;
12
13     switch(operat){
14         case '+':
15             cout<<x+y<<endl;
16             break;
17         case '-':
18             cout<<x-y<<endl;
19             break;
20         case '/':
21             cout<<x/y<<endl;
22             break;
23         case '*':
24             cout<<x*y<<endl;
25             break;
26         default:
27             cout<<"Wrong input";
28     }
29
30     return 0;
31 }
```

Sum of number

```
1  #include <iostream>
2  using namespace std;
3
4  int main(int argc, char** argv)
5  {
6
7      //Iteration
8      int counter = 0;
9      int sum = 0;
10
11     while (counter <= 10)    //true/false
12     {
13         sum = sum + counter;    //or sum += counter
14         counter += 1;
15     }
16     cout<<"The sum of 1 to 100 is: "<<sum;
17
18 }
```

Number Factorial

```
1  #include <iostream>
2  using namespace std;
3
4  int main(int argc, char** argv) {
5
6      int n = 5;
7      int fact = 1;
8      cout<<"Enter number: ";
9      cin>>n;
10     if (n < 1)
11         fact = 1;
12     else{
13         for (int i = n; i > 0; i--)
14             fact = fact*i;
15     }
16     cout<<"Factorial of "<<n<<" is: "<<fact;
17     return 0;
18 }
```

Start Rectangle

```

1  #include <iostream>
2  using namespace std;
3
4  int main(int argc, char** argv)
5  {
6      int i=1;
7      do{
8          cout<<"* ";
9
10         if (i%5 == 0)
11             cout<<endl;
12         i += 1;
13
14     }while(i<=25);
15
16     return 0;
17 }

```

Star Triangle

```

1  #include <iostream>
2  using namespace std;
3
4  int main(int argc, char** argv) {
5
6      int n = 11;
7      int i=n;
8
9      for (i; i>0; i--){
10
11         for (int k=n-i; k<n; k++){
12             cout<<" ";
13         }
14         for (int j=n-i; j>=0; j--){
15             cout<<"* ";
16         }
17         cout<<endl;
18     }
19     cout<<"Loop end at i = "<<i;
20
21     return 0;
22 }
23

```