

Ans 1 - Print the sum of the first 5 decimal numbers from 1 to 5 in binary format.

```
.vscode > C++ practice.cpp
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int sum=0;
6      for(int i=1;i<=5;i++){
7          sum=sum+i;
8      }
9      int ans=0;
10     int pwr=1;
11     while(sum>0){
12         int last_digit=sum%2;
13         ans+=last_digit*pwr;
14         pwr*=10;
15         sum/=2;
16     }
17     cout<<ans;
18
19
20     return 0;
21 }
22
```

```
PS D:\cppprograme\.vscode> cd "d:\cppprograme\.vscode\" ; if ($?) { g++ practice }
1111
PS D:\cppprograme\.vscode> 
```

Ans 2 - Given a natural number, find the number of 0's in the binary representation of that number.

Note: Don't count the preceding zeros.

```
.vscode > C++ practice.cpp
1  #include <iostream>
2  using namespace std;
3
4
5
6  int main() {
7      int number;
8      cout<<"Enter number:";
9      cin>>number;
10     int count=0;
11     while(number>0){
12         int parity=number%2;
13         if(parity==0){
14             count++;
15         }
16         number/=2;
17     }
18     cout<<"The number of zeros: "<<count;
19
20     return 0;
21 }
22
```

```
9
PS D:\cpprogame\.vscode> cd "d:\cpprogame
actice }
Enter number:9
The number of zeros: 2
PS D:\cpprogame\.vscode> 
```

Ans 3 - Given two binary numbers, return the greatest of these numbers in decimal format.

```
.vscode > practice.cpp
2   using namespace std;
3   int main() {
4       int num1,num2;
5       cin>>num1>>num2;
6       int ans1=0;
7       int ans2=0;
8       int pwr=1;
9       while (num1>0){
10          int lastDigit=num1%10;
11          ans1+=lastDigit*pwr;
12          pwr*=2;
13          num1/=10;
14      }
15      pwr=1;
16      while(num2>0){
17          int lastDigit=num2%10;
18          ans2+=lastDigit*pwr;
19          pwr*=2;
20          num2/=10;
21      }
22      if(ans1>ans2){
23          cout<<ans1;
24      } else {
25          cout<<ans2<<endl;
26      }
27      return 0;
28  }
```

```
PS D:\cppprograme\.vscode> cd "d:\cppprograme\.vscode\" ; if ($?) { g++ practice.cpp }
1100
1001
12
PS D:\cppprograme\.vscode> 
```

