




OUTPUT :- Infinite time print (**In while loop**)

1. Predict the output

```
#include <bits/stdc++.h>
using namespace std;

int main() {
    while ('1' < '2')
        cout << "In while loop" << endl;
}
```



Output :- Hello
Hello
Hello

2. Predict the output

```
#include <bits/stdc++.h>
using namespace std;

int main( ) {
    int t = 10;
    while (t /= 2) {
        cout << "Hello" << endl;
    }
}
```

Output :- In for loop
In for loop
In for loop

3. Predict the output

```
#include <bits/stdc++.h>
using namespace std;

int main( ) {
    for (int x = 1; x * x <= 10;
        cout << "In for loop" <<
    }
```



Output :-

9 1

8 2

7 3

6 4

5 5

4 6

4. Predict the output

```
#include <bits/stdc++.h>
using namespace std;

int main( ) {
    int x = 10, y = 0 ;
    while ( x >= y ) {
        x-- ;
        y++ ;
        cout <<  x << " " <<  y  << endl
    }
}
```



Q5 :- WAP to print the sum of all the even digits of a given number.

```
loops2 > ➤ assignment5.cpp > 📦 main()
1  #include<iostream>
2  using namespace std;
3  int main(){
4      cout<<"enter the number: ";
5      int n;
6      cin>>n;
7      int sum=0;
8      int lastdigit;
9      while (n>0)
10     {
11         lastdigit=n%10;
12         if(lastdigit%2==0) sum+=lastdi
13         n/=10;
14     }
15     cout<<sum;
16 }
```



Q6 :- WAP to print the sum of a given number and its reverse.

```
1  #include<iostream>
2  using namespace std;
3  int main(){
4      cout<<"enter the number: ";
5      int n;
6      cin>>n;
7      int reverse=0 ;
8      int lastdigit;
9      int m=n;
10     while(n>0){
11         lastdigit=n%10;
12         reverse*=10;
13         reverse+=lastdigit;
14         n/=10;
15     }
16     cout<<reverse+m;
17 }
```

**Q7 :- Print the
factorials of first
'n' numbers**

```
loops2 >  assignment7.cpp >  main()
1  #include<iostream>
2  using namespace std;
3  int main(){
4      cout<<"enter the number
5      int n;
6      cin>>n;
7      int fact =1;
8      for(int i=1;i<=n;i++){
9          fact*=i;
10         cout<<fact<<endl;
11     }
12 }
```

**Q8 :- Print first
'n' fibonacci
numbers.**

```
loops2 >  assignment8.cpp >  main()
1  #include<iostream>
2  using namespace std;
3  int main(){
4      cout<<"enter the number: ";
5      int n;
6      cin>>n;
7      int a=1;
8      int b=1;
9      int sum=0;
10     for(int i=1;i<=n;i++){
11         cout<<a<<endl;
12         sum=a+b;
13         a=b;
14         b=sum;
15     }
```