for loop:

1. Displaying the sentence 100 times: I want to be a millionaire!

```cpp
#include <iostream>
using namespace std;

int main()
{
      for(int i=1; i<=100; i++)
    cout<<"I want to be a millionaire!"<<endl;

cin.get();   cin.get();
return 0;
}
```

2. Displaying the numbers from 1 till 10 (left code) and reverse (right code), each on new line…

```cpp
#include <iostream>
using namespace std;

int main()
{
      for(int i=1; i<=10; i++)
    cout<<i<<endl;

cin.get();   cin.get();
return 0;
}
```

```cpp
#include <iostream>
using namespace std;

int main()
{
       for(int i=10; i>=1; i--)
     cout<<i<<endl;

cin.get();   cin.get();
return 0;
}
```

3. 1^n+2^n....i^n

```cpp
#include <iostream>
#include <cmath>
using namespace std;
int main ()
{
double i,s=0,n;
cout <<"Type The n\n";
cin >>n;

for(i=1;i<=n;i++)
s=s+pow(i,n);
cout<<"s="<<s;
```

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```
cin.get();cin.get();
return 0;
}
```

4. Sum of odd numbers from 1 till n

```cpp
#include <iostream>
using namespace std;

int main()
{
   int i , sum = 0, n;
   cout<<"\nEnter n:";
   cin>>n;

  for (i=1; i<=n;i=i+2)
    sum=sum+i;

   cout << "Sum of first "<<n<<"  odd numbers is: "
          << sum<< endl;

   cin.get();  cin.get();
   return 0;
}
```

5. sum of positive and negative numbers

```cpp
#include <iostream>
using namespace std;

int main()
{
   int n, num, sum_poz=0,sum_neg=0;
   cout<<"\nEnter n:";
   cin>>n;

  for (int i=1; i<=n;i++)
    { cout<<"\n Enter number:";
       cin>>num;

     if (num>0)
             sum_poz+=num;
     else
             sum_neg+=num;
}

     cout << "\nSum of positive numbers: "<<sum_poz
<<"\nSum of negative numbers: "<<sum_neg<< endl;

   cin.get();  cin.get();
   return 0;
}
```

6. `(x+1)+(x+2)+(x+3)…(x+i)`

```cpp
#include <iostream>
using namespace std;

int main ()
{
int i,n, x, s=0;
cout <<"Type The Value For n";
```

```
cin >>n;
cout <<"Type The Value For x";
cin >>x;

for(i=1;i<=n;i++)
s=s+(x+i);

cout <<"s="<<s<<endl;

cin.get();cin.get();
return 0;
}
```

7. $(1+x)^n$

```
#include <iostream>
#include <cmath>
using namespace std;

int main ()
{
double n,s=0,i,x;
cout <<"Enter the Values of n and x";
cin >>n;
cin >>x;

for (i=1;i<=n;i++)
 s=(s+pow((1+x),n));

cout <<"s="<<s;

cin.get();cin.get();
return 0;
}
```

8. Displaying: 7, 14, 21,........,77.

```
#include <iostream>
using namespace std;
int main()
{

    for (int i=7; i<=77; i+=7)
{
    if (i==77)
        cout<<i<<".";
    else
        cout<<i<<",";
}

cin.get(); cin.get();
return 0;
}
```

9. The sum of even numbers from 2 to 100

```
#include <iostream>
using namespace std;

int main()
{
    int sum,i;
    sum=0;
```

```
for (int i=2; i<=100; i+=2)
 sum=sum+i;

cout<<sum;

cin.get(); cin.get();
return 0;
}
```

10. 1+1/2+1/4+1/6+……+1/i

```
#include <iostream>
using namespace std;
int main()
{
     int n;
     double i,s;
     s=1;

     cout<<"Enter number: ";
     cin>>n;

     for(i=2; i<=n; i+=2)
          s=s+1/i;

     cout<<"The sum is: "<<s;

cin.get(); cin.get();
return 0;
}
```

11. $\displaystyle\sum_{i=1}^{n+1}\left(i+2\right)$ ………………. => $(1+2)+(2+2)+(3+2)+….+(i+2)$

```
#include <iostream>
using namespace std;
int main()
{
     double x,s;
     int i,n;
     cout << "Number x=";
     cin >> x;
     cout << "\nNumber n=";
     cin >> n;
     s=0;
     for (i=1;i<=n;i++)
     s=s+(i+2);

     cout << "\nResult s=";
     cout << s
          << "\n";

cin.get(); cin.get();
return 0;
}
```

12. $\displaystyle y=3x-4\sum_{i=1}^{n+1}\left(i+2\right)$

```
#include <iostream>
```

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```cpp
using namespace std;
int main()
{
      double x,s,y;
      int i,n;
      cout << "Number x=";
      cin >> x;
      cout << "\nNumber n=";
      cin >> n;
      s=0;
      for (i=1;i<=n+1;i++)
      s=s+(i+2);

      y=3*x-4*s;
      cout << "\nResult y=";
      cout << y
            << "\n";

cin.get(); cin.get();
return 0;
}
```