Ans 1.
```
#include<iostream>
using namespace std;
int main()
{
	int i;

	for(i=1;i<=20;i++)

	if(i%2!=0)

	cout<<"the odd no. are:"<<i<<endl;

	return 0;
}
```

Ans 2.
```
#include<iostream>
using namespace std;
int main()
{
	int a,b,i;
	cout<<"Enter ur first no.";
	cin>>a;

	cout<<"Enter ur last no.";
	cin>>b;

	for(i=a;i<=b;i++)

	if(i%2==0)

	cout<<"the odd no. are:"<<i<<endl;

	return 0;
}
```

Ans 3.
```
#include <iostream>
using namespace std;

int main()
{
   int n;

   cout << "Enter a positive integer: ";
   cin >> n;
```

```
   for (int i = 1; i <= 20; ++i) {
      cout << n << " * " << i << " = " << n * i << endl;
   }

   return 0;
}
```

Ans 4.
```
#include<iostream>
using namespace std;

int main()
{
        int number;

        cout << "\nPlease Enter Maximum limit Value to print Even Numbers =  ";
        cin >> number;

        cout << "\nList of Even Numbers are " << number << " are\n";
        for(int i = 20; i >= number; i--)
        {
                if ( i % 2 == 0 )
                {
                        cout << i <<" ";
                }
        }

        return 0;
}
```

Ans 5.
```
#include <iostream>
using namespace std;

int main() {
   int n, sum = n;

   cout << "Enter a positive integer: ";
   cin >> n;

   for (int i = 1; i <= 5; ++i) {
      sum += i;
   }

   cout << "Sum = " << sum;
```

```
    return 0;
}
```

Ans 6.

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

int main()
{
    int i, n;
    float arr[100];

    cout << "Enter total number of elements(1 to 100): ";
    cin >> n;
    cout << endl;

    for(i = 0; i < n; ++i)
    {
      cout << "Enter Number " << i + 1 << " : ";
      cin >> arr[i];
    }
    for(i = 1;i < n; ++i)
    {
      if(arr[0] < arr[i])
          arr[0] = arr[i];
    }
    cout << "Largest element = " << arr[0];

    return 0;
}
```

Ans 7.

```
#include <iostream>
using namespace std;
int main()
{
    int i, num;
    int oddSum=0,evenSum=0;
    cout<<"Enter the value of num \n";
    cin>>num;
    for(i=1; i<=num; i++){
        if(i%2==0)
            evenSum=evenSum+i;
        else
            oddSum=oddSum+i;
    }
```

```
    cout<<"Sum of all odd numbers are:"<< oddSum;
    cout<<"\nSum of all even numbers are:"<<evenSum;
    return 0;
}
```

Ans 8.

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

void revOfString(const string& a);

int main()
{
    string str;
    cout << "\n\n Create and display the unique three-digit number using 1, 2, 3, 4:\n";
        cout << "-----------------------------------------------------------------\n";
        cout<<" The three-digit numbers are: "<<endl;
                int amount = 0;
                cout<<" ";
                for(int i = 1; i <= 4; i++)
                {
                        for(int j = 1; j <= 4; j++)
                        {
                                for(int k = 1; k <= 4; k++)
                                {
                                        if(k != i && k != j && i != j)
                                        {
                                                amount++;
                                                cout<<i <<j<<k<<" ";
                                        }
                                }
                        }
                }
                cout<<endl<<" Total number of the three-digit-number is: "<<
amount<<endl<<endl;
}
```

Ans9.

Ans 10.

```
#include <iostream>
using namespace std;
int main()
{
int n,sum=0,m;
cout<<"Enter a number: ";
```

```
cin>>n;
while(n>0)
{
m=n%10;
sum=sum+m;
n=n/10;
}
cout<<"Sum is= "<<sum<<endl;
return 0;
}
```

Ans 11.

```
#include<iostream>
using namespace std;
int main()
{
   int pos=0, neg=0, zer=0, i, arr[10];
   cout<<"Enter 10 Numbers: ";
   for(i=0; i<10; i++)
      cin>>arr[i];
   for(i=0; i<10; i++)
   {
      if(arr[i]>0)
         pos++;
      else if(arr[i]==0)
         zer++;
      else
         neg++;
   }
   cout<<"\nFrequency of Positive Numbers: "<<pos;
   cout<<"\nFrequency of Zero: "<<zer;
   cout<<"\nFrequency of Negative Numbers: "<<neg;
   cout<<endl;
   return 0;
}
```

Ans 12.

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

int main()
{
   int n, i;
   float num[100], sum=0.0, average;

   cout << "Enter the numbers of data: ";
```

```
    cin >> n;

    while (n > 100 || n <= 0)
    {
        cout << "Error! number should in range of (1 to 100)." << endl;
        cout << "Enter the number again: ";
        cin >> n;
    }

    for(i = 0; i < n; ++i)
    {
        cout << i + 1 << ". Enter number: ";
        cin >> num[i];
        sum += num[i];
    }

    average = sum / n;
    cout << "Average = " << average;

    return 0;
}
```