Homework Questions:

Number 1:
Q)PRINT
1
2 3
4 5 6
7 8 9 10

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
      int n;
      cout<<"Enter the value of n"<<endl;
      cin>>n;
      int row=1;
      int count=1;
      while(row<=n)
      {
            int col=1;
            while(col<=row)
            {
                  cout<<count<<" ";
                  count=count+1;
                  col=col+1;
            }
            cout<<endl;
            row=row+1;
      }
}
```

Number 2:
Q)PRINT
1
2 3
3 4 5
4 5 6 7
5 6 7 8 9

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
      int n;
      cout<<"Value of n is?:"<<endl;
      cin>>n;
      int row=1;
      while(row<=n)
      {
            int col=1;
            int Saaragame=row-col+1;
            while(col<=row)
            {
```

```cpp
                cout<<Saaragame<<" ";
                Saaragame=Saaragame+1;
                col=col+1;


        }
        cout<<endl;
        row=row+1;
    }
}
```

Number 3:
Q) PRINT
A B C
A B C
A B C

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
    int i=1;
    while(i<=n)
    {
        int j=1;
        while(j<=n)
        {
            char ch='A'+j-1;
            cout<<ch<<" ";
            j=j+1;
        }
        cout<<endl;
        i=i+1;
    }
}
```

Number 4:
Q) PRINT
A B C D
E F G H
I J K L
M N O P

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
```

```cpp
        int i=1;
        char ch='A';
        while(i<=n)
        {
                int j=1;
                while(j<=n)
                {
                        cout<<ch<<" ";
                        ch=ch+1;
                        j=j+1;
                }
                cout<<endl;
                i=i+1;


        }
}
```

Number 5:
Q)PRINT
A B C
B C D
C D E

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
        int n;
        cout<<"Enter the value of n:"<<endl;
        cin>>n;
        int i=1;
        while(i<=n)
        {
                int j=1;
                while(j<=n)
                {
                        char ch='A'+i+j-2;
                        cout<<ch<<" ";
                        ch=ch+1;
                        j=j+1;
                }
                cout<<endl;
                i=i+1;
        }
}
```

Number 6:
Q)PRINT
A
B B
C C C
D D D D

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

```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
    int i=1;
    char ch='A';
    while(i<=n)
    {
        int j=1;
        while(j<=i)
        {
            cout<<ch<<" ";
            j=j+1;
        }
        ch=ch+1;
        cout<<endl;
        i=i+1;

    }
}
```

Number 7:
Q)PRINT
****
***
**
*

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
    int i=1;
    while(i<=n)
    {
        int j=1;
        int star=n-i+1;
        while(star)
        {
            cout<<'*';
            star=star-1;
            j=j+1;
        }

        cout<<endl;
        i=i+1;
    }

}
```

Number 8:

Q)PRINT
```
****
 ***
  **
   *
```

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
    int i=1;
    while(i<=n)
    {
        int space=i-1;
        while(space)
        {
            cout<<" ";
            space=space-1;
        }
        int j=1;
        int star=n-i+1;
        while(star)
        {
            cout<<'*';
            star=star-1;
            j=j+1;
        }

        cout<<endl;
        i=i+1;
    }

}
```

Number 9:
Q)PRINT
```
1111
  222
   33
    4
```

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the value of n:"<<endl;
    cin>>n;
    int i=1;
    while(i<=n)
    {
        int space=i-1;
        while(space)
```

```
            {
                    cout<<" ";
                    space=space-1;
            }
            int j=1;
            int Num=n-i+1;
            while(Num)
            {
                    cout<<i;
                    Num=Num-1;
                    j=j+1;
            }

            cout<<endl;
            i=i+1;
        }

}

Number 10:
Q)PRINT
      1
    22
  333
4444

CODE:
#include<iostream>
using namespace std;
int main()
{
        int n;
        cout<<"Enter the value of n:"<<endl;
        cin>>n;
        int i=1;
        while(i<=n)
        {
                int space=n-i;
                while(space)
                {
                        cout<<" ";
                        space=space-1;
                }
                int j=1;
                while(j<=i)
                {
                        cout<<i;
                        j=j+1;
                }

                cout<<endl;
                i=i+1;
        }

}

Number 11:
Q)PRINT
```

```
1234
  234
    34
      4
```

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
	int n;
	cout<<"Enter the value of n:"<<endl;
	cin>>n;
	int i=1;
	while(i<=n)
	{
		int space=i-1;
		while(space)
		{
			cout<<" ";
			space=space-1;
		}
		int j=1;
		int Num=i;
		while(j<=n-i+1)
		{
			cout<<Num;
			Num=Num+1;
			j=j+1;
		}

		cout<<endl;
		i=i+1;
	}

}
```

Number 12:
Q)PRINT
```
      1
    23
  456
78910
```

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
	int n;
	cout<<"Enter the value of n:"<<endl;
	cin>>n;
	int i=1;
	int count=1;
	while(i<=n)
	{
		int space=n-i;
```

```cpp
            while(space)
            {
                    cout<<" ";
                    space=space-1;
            }
            int j=1;
            while(j<=i)
            {
                    cout<<count;
                    count=count+1;
                    j=j+1;
            }

            cout<<endl;
            i=i+1;
        }

}
```

Number 13:(MAHARATHI PROBLEM)
Q)PRINT
1 2 3 4 5 5 4 3 2 1
1 2 3 4 * * 4 3 2 1
1 2 3 * * * * 3 2 1
1 2 * * * * * * 2 1
1 * * * * * * * * 1

CODE:
```cpp
#include<iostream>
using namespace std;
int main()
{
      int n;
      cout<<"Enter the value of n:"<<endl;
      cin>>n;
      int i=1;
      while(i<=n)
      {

            int j=1;
            while(j<=n-i+1)
            {
                    cout<<j<<" ";
                    j=j+1;
            }
            int star=2*i-2;
            while(star)
            {
                    cout<<'*'<<" ";
                    star=star-1;
            }

            int j1=1;
            int n1=n-i+1;
            while(n1)
            {
                    cout<<n1<<" ";
                    n1=n1-1;
```

```cpp
                j1=j1+1;
            }

        cout<<endl;
    i=i+1;
    }

}
```