Question num:1a

```cpp
#include <iostream>

using namespace std;


int main()
{
for(int i=1;i<=5;i++) // i is my no of rows
{
cout<<endl;


for(int j=1;j<=5;j++)
{
cout<<j;


}



}



return 0;
}
```

```
12345
12345
12345
12345
12345
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Process exited after 0.08879 seconds with return value 0
Press any key to continue . . .
```

Question num:1b

```cpp
#include <iostream>

using namespace std;


int main()
{


        for(int i=1; i<=5 ;i++ )

        {

                cout<<endl;


                for (int j=1; j<=5 ;j++)

                {

                        cout<<" "<<j*i;

                }

        }



return 0;

}
```

```
D:\1st sm Programing fundamentals\lab-6 p.f\Question no-1b.exe

1 2 3 4 5
2 4 6 8 10
3 6 9 12 15
4 8 12 16 20
5 10 15 20 25
-------------------------------
Process exited after 0.09589 seconds with return value 0
Press any key to continue . . .
```

Question num:1c

```cpp
#include <iostream>

using namespace std;


int main()
{
        int l=0;

        for (int i=1 ; i<=5 ;i++)

        {
                cout<<endl;


                for (int j=1 ;j<=i;j++)

                {
                        cout<<" "<<j;

                }

        }


return 0;

}
```

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
--------------------------------
Process exited after 0.0878 seconds with return value 0
Press any key to continue . . .
```

Question num:1d

```cpp
#include <iostream>

using namespace std;


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

        {
                cout<<endl;


                for (int j=1;j<=i;j++)
                {
                        cout<<" "<<"*";
                }


        }


return 0;
```

}

```
 *
 * *
 * * *
 * * * *
 * * * * *
-------------------------------
Process exited after 0.09363 seconds with return value 0
Press any key to continue . . .
```

Question num:1e

```cpp
#include <iostream>

using namespace std;


int main()
{


        for(int i=1;i<=5;i++)

        {

                cout<<endl;


                for (int j=i;j<=5;j++)

                {

                        cout<<" "<<j;

                }

        }



return 0;

}
```

```
D:\1st sm Programing fundamentals\lab-6 p.f\Question no-1e.exe

1 2 3 4 5
2 3 4 5
3 4 5
4 5
5
---------------------------------
Process exited after 0.09035 seconds with return value 0
Press any key to continue . . .
```

Question num:1f

```cpp
#include <iostream>

using namespace std;


int main()

{

        for (int i=1; i<=5 ;i++)

        {

                cout<<endl;


                for (int j=i ; j<=5 ;j++ )

                {

                        cout<<" "<<"*";

                }

        }


return 0;

}
```

```
*  *  *  *  *
*  *  *  *
*  *  *
*  *
*

----------------------------------
Process exited after 0.1102 seconds with return value 0
Press any key to continue . . .
```

Question num:1g

```cpp
#include <iostream>

using namespace std;


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

        {

                cout<<endl;


                for (int j=1;j<=i;j++)

                {

                        cout<<" "<<"*";

                }

        }



        for (int i=4;i>=1;i--)

        {
```

```cpp
            cout<<endl;


            for (int j=1;j<=i;j++)
            {
                    cout<<" "<<"*";
            }
        }



return 0;

}
```
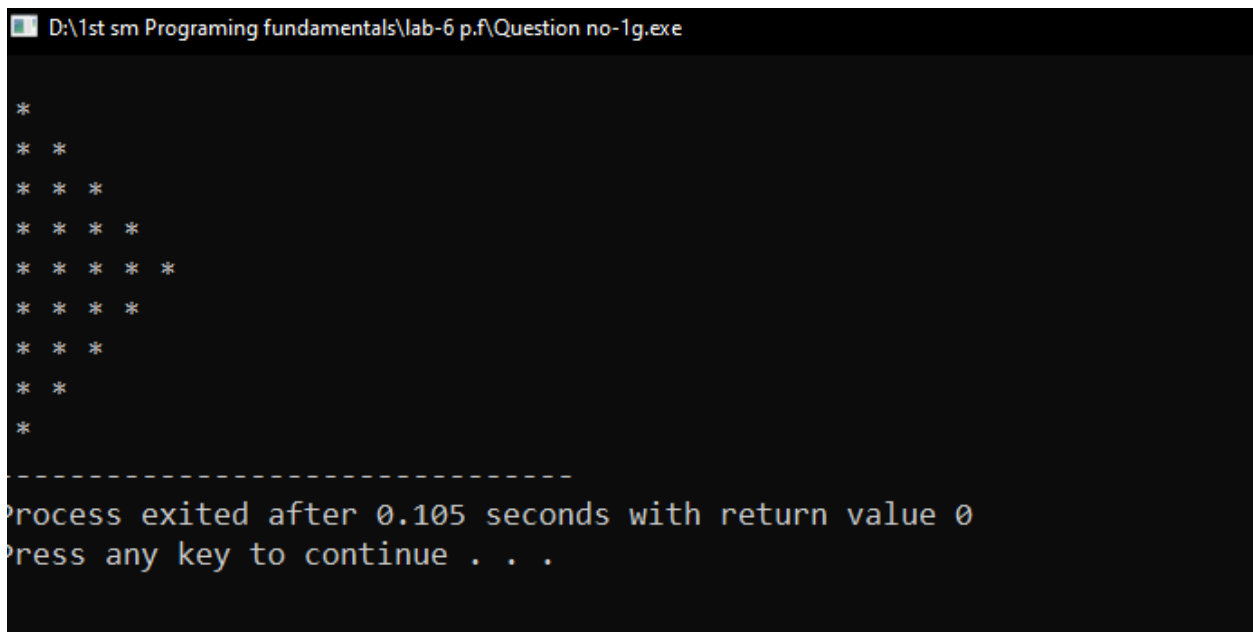

Question num:1h

```cpp
#include <iostream>

using namespace std;


int main()

{
```

```cpp
        int k=0;

        for (int i=1;i<=5;i++)

        {

                cout<<endl;


                for (int j=1;j<=i;j++)

                {

                        cout<<" " <<i;

                }

        }


return 0;

}
```


Question num:2

```cpp
#include <iostream>

using namespace std;


int main()

{

        int num,score ;
```

```cpp
        cout<<"For how many students do you have scores ? ";

        cin>>num;

        cout<<"\n How many test scores does each students have ? ";

        cin>>score;


        for(int i=1;i<=num;i++)

        {

                cout<<endl;

                int marks;

                double marks2=0;



                for (int j=1;j<=score;j++)

                {



                        cout<<"\n Enter score  "<< j << " for student no "<<i<<" : ";

                        cin>>marks;

                        marks2+=marks;



                }



                cout<<"\n The average score for student "<< i<<" is "<<marks2/score<<endl;


        }
return 0;

}
```

```
D:\1st sm Programing fundamentals\lab-6 p.f\Question no2.exe

For how many students do you have scores ? 2

 How many test scores does each students have ? 3


 Enter score  1 for student no 1 : 24.5

 Enter score  2 for student no 1 : 67.8

 Enter score  3 for student no 1 : 98.7

 The average score for student 1 is 63.6667


 Enter score  1 for student no 2 : 45.6

 Enter score  2 for student no 2 : 67.8

 Enter score  3 for student no 2 : 98.9

 The average score for student 2 is 70.7667

--------------------------------
Process exited after 23.66 seconds with return value 0
Press any key to continue . . . _
```

Question num:3

#include <iostream>

using namespace std;

int main()

{

    int range;

    int i;

    cout<<"Enter the range up to which you want to find table: ";

```cpp
        cin>>range;


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

        {

                cout<<endl<<"Table of "<<i<<endl;



                for (int j=1;j<=10;j++)

                {

                        cout<<i<<" x "<<j<<" = "<<i*j<<endl;

                }

        }


return 0;

}
```

```
Enter the range up to which you want to find table: 2

Table of 1
1 x 1 = 1
1 x 2 = 2
1 x 3 = 3
1 x 4 = 4
1 x 5 = 5
1 x 6 = 6
1 x 7 = 7
1 x 8 = 8
1 x 9 = 9
1 x 10 = 10

Table of 2
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20

--------------------------------------
```