

## Assignment = 8

1. write a program to print the pattern like

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

```
#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=i;j++)
        {
            printf("*");
        }
        printf("\n");
    }
}
```

2. write a program to print the pattern like

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

```
#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=5;j++)
        {
            if(j>=6-i)
                printf("*");
            else
                printf(" ");
        }
    }
}
```

```

        printf("\n");
    }
}

```

3. write a program to print the pattern like

```

* * * * *
* * * *
* * *
* *
*

```

```

#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=5;j++)
        {
            if(j<=6-i)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
}

```

4. write a program to print the pattern like

```

* * * * *
* * * *
* * *
* *
*

```

```

#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=5;j++)
        {
            if(j>=i)
                printf("*");
            else

```

```

        printf(" ");
    }
    printf("\n");
}
}

```

5. write a program to print the pattern like

```

      *
    * * *
  * * * * *
* * * * * * *
* * * * * * * * */

```

```

#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=2*5-1;j++)
        {
            if(j>=6-i && j<=4+i)
                printf("*");
            else
                printf(" ");
        }
        printf("\n ");
    }
}

```

6. write a program to print the pattern like

```

* * * * *
* * * * *
* * * * *
* * *
*

```

```

#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=9;j++)
        {
            if(j>=i && j<=10-i)
                printf("*");

```

```

        else
        printf(" ");
    }
    printf("\n ");
}
}

```

7. write a program to print the pattern like

```

* * * * *
* * * *   * * *
* * *     * * *
* *       * *
*         *

```

```

#include <stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=2*5;j++)
        {
            if(j<=6-i || j>=5+i)
            printf("*");
            else
            printf(" ");
        }
        printf("\n ");
    }
}

```

8. write a program to print the pattern like

```

      1
    1 2 1
  1 2 3 2 1
1 2 3 4 3 2 1

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=4;i++)
    {
        k=0;
        printf("\t");
        for(j=1;j<=7;j++)
        {
            if(j>=5-i && j<=3+i)
            {

```

```

        if(j<=8-j)
            printf("%d",++k);
        else
            printf("%d",--k);
    }
    else
        printf(" ");
}
printf("\n ");
}
}

```

9. write a program to print the pattern like

```

1 2 3 4 3 2 1
 1 2 3 2 1
   1 2 1
    1

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=4;i++)
    {
        k=0;
        printf("\t");
        for(j=1;j<=2*4-1;j++)
        {
            if(j>=i && j<=8-i)
            {
                if(j<=8-j)
                    printf("%d",++k);
                else
                    printf("%d",--k);
            }
            else
                printf(" ");
        }
        printf("\n ");
    }
}

```

10. write a program to print the pattern like

```

1 2 3 4 3 2 1
 1 2 3   3 2 1
   1 2       2 1
    1           1

```

```

#include <stdio.h>
int main()

```

```

{
    int i,j,k;
    for(i=1;i<=4;i++)
    {
        k=0;
        printf("\t");
        for(j=1;j<=7;j++)
        {
            if(j<=5-i || j>=3+i)
            {
                if(j<=5-i && j<=3+i)
                printf("%d",++k);
                else if(j==3+i)
                printf("%d",k);
                else
                printf("%d",--k);
            }
            else
            printf(" ");
        }
        printf("\n ");
    }
}

```

11. write a program to print the pattern like

```

      A
     A B A
    A B C B A
   A B C D C B A
  A B C D E D C B A

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=5;i++)
    {
        k=64;
        printf("\t");
        for(j=1;j<=9;j++)
        {
            if(j>=6-i && j<=4+i)
            {
                if(j>=6-i && j<=10-j)
                printf("%c",++k);
                else

```

```

        printf("%c",--k);
    }
    else
        printf(" ");
}
printf("\n ");
}
}

```

12. write a program to print the pattern like

```

A B C D C B A
  A B C B A
    A B A
      A

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=4;i++)
    {
        k=64;
        printf("\t");
        for(j=1;j<=7;j++)
        {
            if(j>=i && j<=8-i)
            {
                if(j>=i && j<=8-j)
                    printf("%c",++k);
                else
                    printf("%c",--k);
            }
            else
                printf(" ");
        }
        printf("\n ");
    }
}

```

13. write a program to print the pattern like

```

A B C D E F G F E D C B A
A B C D E F   F E D C B A
A B C D E     E D C B A
A B C D       D C B A
A B C         C B A
A B           B A
A             A

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=7;i++)
    {
        k=64;
        printf("\t");
        for(j=1;j<=13;j++)
        {
            if(j<=8-i || j>=6+i)
            {
                if(j<=8-i && j<=6+i)
                printf("%c",++k);
                else if(j==6+i)
                printf("%c",k);
                else
                printf("%c",--k);
            }
            else
                printf(" ");
        }
        printf("\n ");
    }
}

```

14. write a program to print the pattern like

```

*
* *
*  *
*    *
* * * * *

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=5;j++)
        {
            if(j==1 || j==i || i==5)
            printf("*");
            else
            printf(" ");
        }
    }
}

```



```

        printf("\n");
    }
}

```

15. write a program to print the pattern like

```

      *
     * *
    *  *
   *    *
  * * * *

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=5;j++)
        {
            if(j==5 || j==6-i || i==5)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
}

```

16. write a program to print the pattern like

```

      *
     * *
    *  *
   *    *
  *      *
 *        *
* * * * *

```

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=5;i++)
    {
        printf("\t");
        for(j=1;j<=9;j++)
        {
            if(j==6-i || j==4+i || i==2*5-i)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
}

```

```
}
}
```

17. write a program to print the pattern like

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

```
#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=9;i++)
    {
        printf("\t");
        for(j=1;j<=9;j++)
        {
            if(j>=6-i && j<=4+i)
            {
                if(i>=i/2)
                {
                    if(j>=i-4 && j<=14-i)
                    printf("*");
                    else
                    printf(" ");
                }
                else
                printf("*");
            }
            else
            printf(" ");
        }
        printf("\n");
    }
}
```

18. write a program to print the pattern like

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

```

#include <stdio.h>
int main()
{
    int i,j,k;
    for(i=1;i<=3;i++)
    {
        printf("\t");
        for(j=1;j<=19;j++)
        {
            if ((j>=4-i && j<=6+i) || (j>=14-i && j<=16+i))
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
    for(i=1;i<=10;i++)
    {
        printf("\t");
        for(j=1;j<=19;j++)
        {
            if((i==1) && (j==7) )
            {
                printf("MySirG");
            }
            if(j>=i && j<=20-i)
            {
                if((i==1) && (j>=7) && (j<=12))
                    continue;
                printf("*");
            }
            else
                printf(" ");
        }
        printf("\n");
    }
}

```

**19. write a program to print the pattern like**

```

#include <stdio.h>
int main()
{
    int i,j,k;

```

```

for(i=1;i<=3;i++)
{
    printf("\t");
    for(j=1;j<=19;j++)
    {
        if ((j>=4-i && j<=6+i) || (j>=14-i && j<=16+i))
            printf("*");
        else
            printf(" ");
    }
    printf("\n");
}
for(i=1;i<=10;i++)
{
    printf("\t");
    for(j=1;j<=19;j++)
    {
        if((i==1) && (j==7) )
        {
            printf("MYSirG");
        }
        if(j>=i && j<=20-i)
        {
            if((i==1) && (j>=7) && (j<=12))
                continue;
            printf("*");
        }
        else
            printf(" ");
    }
    printf("\n");
}
getch();
}

```