

Assignment – 8

1. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j;
    for (i=0;i<5;i++)
    {
        for(j=0;j<=i;j++)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```

2. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j;
    for (i=1;i<=5;i++)
    {
        for(j=1;j<=5-i;j++)
        {
            printf(" ");
        }
        for(j;j<=5;j++)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```

3. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j;
    for (i=0;i<5;i++)
    {
        for(j=5;j>i;j--)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```

4. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j;
    for (i=0;i<=5;i++)
    {
        for(j=1;j<=i;j++)
        {
            printf(" ");
        }
        for(j;j<=5;j++)
        {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}
```

5. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=0;i<5;i++)
    {
        for(j=0;j<(5-i);j++)
        {
            printf(" ");
        }
        for(k=0;k<(2*i+1);k++)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

6. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=4;i>=0;i--)
    {
        for(j=0;j<(5-i);j++)
        {
            printf(" ");
        }
        for(k=0;k<(2*i+1);k++)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

7. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=0;i<5;i++)
    {
        for(j=1;j<(5-i+1);j++)
        {
            printf("*");
        }
        for(k=0;k<(2*i);k++)
        {
            printf(" ");
        }
        for(j;j>1;j--)
        {
            printf("*");
        }
        printf("\n");
    }
    return 0;
}
```

8. Write a program to draw the patterns:

```
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,l;
    for(i=1;i<=4;i++)
    {
        for(j=1;j<=(4-i);j++)
        {
            printf(" ");
        }
        for(k=1;k<=i;k++)
        {

```

```

        printf("%d",k);
    }
    for(l=k-2;l>=1;l--)
    {
        printf("%d",l);
    }
    printf("\n");
}
return 0;
}

```

9. Write a program to draw the patterns:

```

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,l;
    for(i=4;i>=1;i--)
    {
        for(j=1;j<=(4-i);j++)
        {
            printf(" ");
        }
        for(k=1;k<=i;k++)
        {
            printf("%d",k);
        }
        for(l=k-2;l>=1;l--)
        {
            printf("%d",l);
        }
        printf("\n");
    }
    return 0;
}

```

10. Write a program to draw the patterns:

```

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=0;i<4;i++)
{
    for(j=1;j<=4-i;j++)
        printf("%d",j);
    for(k=0;k<2*i;k++)
        printf(" ");
    for(j=j-1;j>=1;j--)
        printf("%d",j);
    printf("\n");
}
return 0;
}

```

11. Write a program to draw the patterns:

```

      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,l;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=(5-i);j++)
        {
            printf(" ");
        }
        for(k=1;k<=i;k++)
        {
            printf("%c",k+64);
        }
        for(l=k-2;l>=1;l--)
        {
            printf("%c",l+64);
        }
        printf("\n");
    }
    return 0;
}

```

12. Write a program to draw the patterns:

```

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,l;
    for(i=4;i>=1;i--)
    {
        for(j=1;j<=(4-i);j++)
        {
            printf(" ");
        }
        for(k=1;k<=i;k++)
        {
            printf("%c",k+64);
        }
        for(l=k-2;l>=1;l--)
        {
            printf("%c",l+64);
        }
        printf("\n");
    }
    return 0;
}
```

13. Write a program to draw the patterns:

```
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;
    int c=64;
    for(i=0;i<7;i++)
    {
        for(j=1;j<=7-i;j++)
            printf("%c",c+j);
        for(k=0;k<2*i;k++)
            printf(" ");
        for(j=j-1;j>=1;j--)
            printf("%c",c+j);
        printf("\n");
    }
    return 0;
}
```

14. Write a program to draw the patterns:

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

```
#include<stdio.h>
int main()
{
    int i,j;
    for(i=1;i<=5;i++)
    {
        for(j=1;j<=i;j++)
        {
            if(j==1 || i==j || i==5)
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}
```

15. Write a program to draw the patterns:

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

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



```

    }
    return 0;
}

```

16. Write a program to draw the patterns:

```

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

```

```

#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=0;i<5;i++)
    {
        for(j=0;j<(5-i);j++)
        {
            printf(" ");
        }
        for(k=0;k<(2*i+1);k++)
        {
            if(i==4 || k==0 || k==(2*i))
                printf("*");
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}

```

17. Write a program to draw the patterns:

```

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

```

```

#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=4;i>=0;i--)
    {
        for(j=0;j<(4-i);j++)
        {
            printf(" ");
        }
    }
}

```

```

    }
    for(k=0;k<(2*i+1);k++)
    {
        if(i==4 || k==0 || k==(2*i))
            printf("*");
        else
            printf(" ");
    }
    printf("\n");
}
return 0;
}

```

18. Write a program to draw the patterns:

```

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

```

```

#include<stdio.h>
int main()
{
    int i,j,k;
    for(i=0;i<5;i++)
    {
        for(j=0;j<(5-i);j++)
        {
            printf(" ");
        }
        for(k=0;k<(2*i+1);k++)
        {
            printf("*");
        }
        printf("\n");
    }
    for(i=3;i>=0;i--)
    {
        for(j=0;j<(5-i);j++)
        {
            printf(" ");
        }
        for(k=0;k<(2*i+1);k++)
        {
            printf("*");
        }
        printf("\n");
    }
}

```

```
}
```

```
return 0;
```

19. Write a program to draw the patterns:

```

    * * * * *
    * * * * *
* * * * * * * * * *
* * * * * * * * * *
* * * * * MySirG * * * * *
* * * * * * * * * *
* * * * * * * * * *
    * * * * *
      * * * * *
        * * * * *
          * * * * *
            * * * *
              * * *
                *

```