NUMBER PATTERN ::::::::::

1.Square Number Pattern 1

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
            {printf("1");}
            printf("\n");

    }
}
```

2.Number pattern 2

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        if(i%2!=0)
        for(j=1;j<=n;j++)
            printf("1");
            else
            for(j=1;j<=n;j++)
                printf("0");
            printf("\n");

    }
}
```

3.Number pattern 3

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
            if(j%2!=0)
            printf("0");
            else
                printf("1");
            printf("\n");

    }
}
```

4.Number pattern 4:

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
        if(i==1 || i==n)
            printf("1");
        else if((i>1&&i<n)&&j==1 || (i>1&&i<n)&&j==n)
            printf("1");
        else
            printf("0");}
        printf("\n");

    }
    return 0;
}
```

5.Number Pattern 5:

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
        if(i==(n/2+1)&& j==(n/2+1))
            printf("0");
        else
            printf("1");}
        printf("\n");

    }
    return 0;
}
```

6. Number Pattern 6:

```c
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=1;j<=n;j++)
        {
        if((i%2!=0) && (j%2!=0))
            printf("1");
        else if((i%2!=0)&&(j%2==0))
            printf("0");
        else if((i%2==0)&&(j%2!=0))
            printf("0");
        else if((i%2==0)&&(j%2==0))
            printf("1");
        }
        printf("\n");

    }
    return 0;}
```

7.Number Pattern 7:	8.Number Pattern 8:	8... else if((i>1 && i<n &&

7.Number Pattern 7:

```c
#include<stdio.h>
int main()
{
   int i,j,n;
   printf("Input number of rows : ");
   scanf("%d",&n);
   for(i=1; i<=n; i++)
   {
     for(j=1; j<=n; j++)
     {
       if(i!=(n/2+1) && j==(n/2+1))
          printf("0");
       else if(i==(n/2+1))
          printf("0");
       else
          printf("1");
     }
     printf("\n");
   }
   return 0;
}
```

8.Number Pattern 8:

```c
#include<stdio.h>
int main()
{
   int i,j,n;
   printf("Input number of rows : ");
   scanf("%d",&n);
   for(i=1; i<=n; i++)
   {
     for(j=1; j<=n; j++)
     {
       if((i==1 || i==n)&& (j==1 || j==n))
           printf("1");
       else if(i==(n/2+1) && j==(n/2+1))
           printf("1");
```

8...

```c
       else if((i>1 && i<n && 5i!=(n/2+1))&&(j==2 || j==n-1))
           printf("1");
       else
           printf("0");}
     printf("\n");
   }
   return 0; }          else if((i>1 && i<n && 5i!=(n/2+1))&&(j==2 || j==n-1))
           printf("1");
       else
           printf("0");}
     printf("\n");
   }
   return 0; }
```

9.Number Pattern 9:

```c
#include<stdio.h>
int main()
{
   int i,j,n;
   printf("Input number of rows : ");
   scanf("%d",&n);
   for(i=1; i<=n; i++)
   {
     for(j=1; j<=n; j++)
     {
       if((i==1 || i==n) && (j>1 && j<n))
          printf("1");
       else if((i>1&&i<n)&&(j==1||j==n))
          printf("1");
       else
          printf("0");
     }
     printf("\n");
   }
   return 0;
}
```

10.Number pattern 10:

```c
#include<stdio.h>
int main()
{
   int i,j,n;
   printf("Input number of rows : ");
   scanf("%d",&n);
   for(i=1; i<=n; i++)
   {
     for(j=1; j<=n; j++)
     {
       printf("%d",i);
     }
     printf("\n");
   }
   return 0;
}
```

11.number Pattern 11:

```c
#include<stdio.h>
int main()
{
   int i,j,n;
   printf("Input number of rows : ");
   scanf("%d",&n);
   for(i=1; i<=n; i++)
   {
     for(j=1; j<=n; j++)
     {
       printf("%d",j);
     }
     printf("\n");
   }
   return 0;
}
```

12.Number Pattern 12:	13.Number pattern 13:	14.

```c
12.Number Pattern 12:

#include<stdio.h>
int main()
{
    int i,j,n,k=1;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=k;j<k+n;j++)
        {
            printf("%-4d",j);
        }
        k++;
        printf("\n");
    }
    return 0;
}
```

```c
13.Number pattern 13:

#include<stdio.h>
int main()
{
    int i,j,n,k=1;
    printf("Input number
of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=k;j<k+n;j++)
        {
            printf("%-4d",j);
        }
        k=k+n;
        printf("\n");
    }
    return 0;
}
```

```c
14.
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows :
");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=n;j>n-i;j--)
        {
            printf("%d",j);
        }
        for(j=1;j<=n-i;j++)
        {
            printf("%d",n-i+1);
        }
        printf("\n");
    }
    return 0;
}
```

15.	16.	17.

```c
15.
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=i;j<=n;j++)
        {
            printf("%d",j);
        }
        for(j=i;j>1;j--)
        {
            printf("%d",n);
        }
        printf("\n");
    }
    return 0;
}
```

```c
16.
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number
of rows : ");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=i;j<=n;j++)
        {
            printf("%d",j);
        }
        for(j=i-1;j>=1;j--)
        {
            printf("%d",j);
        }
        printf("\n");
    }
    return 0;
}
```

```c
17.
#include<stdio.h>
int main()
{
    int i,j,n;
    printf("Input number of rows :
");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(j=i;j>=1;j--)
        {
            printf("%d",j);
        }
        for(j=2;j<=n-i+1;j++)
        {
            printf("%d",j);
        }
        printf("\n");
    }
    return 0;
}
```