

T.I.M. HAMIM

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1. pattern

Art something is called pattern in programming.

Make a program that will show given bellow:

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

```
    Make a program that will show given bellow:

   Please enter line number: 4
    12
    123
    1234
package basicjava;
import java.util.Scanner;
public class JavaCode{
  public static void main(String[] args)
  {
    Scanner scan = new Scanner(System.in);
    int row, column, num, sum = 0, rem;
    System.out.print("Please enter line number:
");
    num = scan.nextInt();
    for(row=1;row<=num;row++){
      for(column=1;column<=row;column++){
         System.out.print(" "+column);
      }
      System.out.println();
    }
  }
}
```

```
    Make a program that will show given bellow:

   Please enter line number: 4
    1234
    123
    12
    1
package basicjava;
import java.util.Scanner;
public class JavaCode{
  public static void main(String[] args)
  {
    Scanner scan = new Scanner(System.in);
    int row, column, num, sum = 0, rem;
    System.out.print("Please enter line number:
");
    num = scan.nextInt();
    for(row=num;row>=1;row--){
      for(column=1;column<=row;column++){
         System.out.print(" "+column);
      }
      System.out.println();
    }
  }
}
```

Make a program that will print given bellow:
 Enter last finishing number: 5

```
* * * *
    * * *
    *
#include<stdio.h>
int main()
{
  int i,j,sum=0,n;
  printf("Enter last finishing number: ");
  scanf("%d",&n);
  for(i=n;i>=1;i--){
     for(j=1;j<=i;j++){
       printf("* ");
     }
     printf("\n");
  }
  return 0;
}
```

```
* * * * *

* * * *

* * *

*
```

```
#include<stdio.h>
int main()
{
 int i,j,n;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=1;i<=n;i++){
 for(j=1;j<=i+i;j++){}
  printf(" ");
 for(j=1;j<=n;j++){
 printf("* ");
  printf("\n");
 }
 return 0;
}
```

```
or,
#include<stdio.h>
int main()
{
 int i,j,sum=0,n,k;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=n,k=0;i>=1;i--,k=k+2){
 for(j=1;j<=k;j++){
  printf(" ");
 for(j=i;j>=1;j--){
 printf("* ");
 printf("\n");
 }
 return 0;
```

}

```
* * * * *
   * * * *
  * * *
*
#include<stdio.h>
int main()
{
 int i,j,sum=0,n,k;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=n,k=1;i>=1;i--,k++){}
 for(j=1;j<=(i-1)*2;j++){
  printf(" ");
 for(j=i;j>=1;j--){
  printf("* ");
  }
 printf("\n");
 return 0;
}
```

Make a program that will print given bellow:
 Enter last finishing number: 5

```
* *
    * * *
    * * * *
    * * * * *
#include<stdio.h>
int main()
{
 int i,j,sum=0,n;
 printf("Enter last finishing number: ");
 scanf("%d",&n);
 for(i=1;i<=n;i++){
  for(j=1;j<=i;j++){
   printf("* ");
  printf("\n");
 return 0;
}
```

Make a program that will print given bellow:
 Enter last finishing number: 5

```
* *
        * * *
      * * * *
    * * * * *
#include<stdio.h>
int main()
{
 int i,j,n;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=n;i>=1;i--){
 for(j=1;j<=(i-1)*2;j++){
  printf(" ");
 for(j=n;j>=i;j--){
 printf("* ");
  printf("\n");
 return 0;
}
```

```
or,
#include<stdio.h>
int main()
{
 int i,j,sum=0,n,k;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=n,k=1;i>=1;i--,k++){}
 for(j=1;j<=(i-1)*2;j++){
  printf(" ");
 for(j=1;j<=k;j++){
 printf("* ");
 printf("\n");
 return 0;
}
```

```
***
    ****
   *****
  *****
 *****
*****
#include<stdio.h>
int main()
{
 int i,j,sum=0,n,k,p;
 printf("Enter total line : ");
 scanf("%d",&n);
 for(i=1;i<=n;i++){}
 for(j=i;j<n;j++){
  printf(" ");
 for(j=1;j<=i+(i-1);j++){
 printf("*");
 printf("\n");
 p=k;
 return 0;
}
```

```
or,
#include<stdio.h>
int main()
{
  int i,j,sum=0,n,k;
  printf("Enter total line:");
  scanf("%d",&n);
  for(i=n,k=1;i>=1;i--,k=k+2){
   for(j=1;j<i;j++){
     printf(" ");
   for(j=1;j<=k;j++){}
   printf("*");
   printf("\n");
  }
  return 0;
```

}

```
*****
    *****
     *****
      *****
       ****
         ***
          *
#include<stdio.h>
int main()
{
 int i,j,sum=0,n,k,p;
 printf("Enter total line : ");
 scanf("%d",&n);
 for(i=n;i>=1;i--){
 for(j=1;j<=n-i;j++){}
  printf(" ");
 for(j=1;j<=i+(i-1);j++){
 printf("*");
 printf("\n");
 return 0;
}
```

```
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=n;i>=1;i--){
   for(j=1;j<i;j++){
     printf(" ");
   for(j=i;j<=n;j++){
    printf("* ");
    printf("\n");
  }
  return 0;
}
```

```
or,
#include<stdio.h>
int main()
{
  int i,j,n,k;
  printf("Enter total line:");
  scanf("%d",&n);
  for(i=n,k=1;i>=1;i--,k=(k+2)-1){
    for(j=1;j<i;j++){
     printf(" ");
    for(j=1;j<=k;j++){}
    printf("* ");
    printf("\n");
  }
  return 0;
}
```

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

```
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=n;i>=1;i--){
   for(j=1;j<=n-i;j++){}
     printf(" ");
   for(j=1;j<=i;j++){
    printf("* ");
    }
    printf("\n");
  }
  return 0;
}
```

```
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=1;i<=n;i++){
   for(j=n;j>i;j--){
     printf(" ");
   for(j=1;j<=i;j++){
    printf("* ");
   printf("\n");
  }
```

```
for(i=n-1;i>=1;i--){
    for(j=1;j<=n-i;j++){
        printf(" ");
    }
    for(j=1;j<=i;j++){
        printf("* ");
    }
    printf("\n");
    }
    return 0;</pre>
```

}

```
or,
#include<stdio.h>
int main()
{
 int i,j,n;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=n;i>=1;i--){
  for(j=1;j<i;j++){
  printf(" ");
 for(j=i;j\leq n;j++){
  printf("* ");
 }
  printf("\n");
 }
 for(i=n-1;i>=1;i--){
  for(j=1;j<=n-i;j++){
  printf(" ");
 }
 for(j=1;j<=i;j++){
  printf("* ");
 }
  printf("\n");
 return 0;
}
```

```
or,
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Enter the number do you want:");
  scanf("%d",&n);
  for(i=1;i<=n;i++){
     for(j=1;j<=n-i;j++){}
        printf(" ");
  for(j=1;j<=i;j++){
  printf("* ");
  printf("\n");
  for(i=n-1;i>=1;i--){
  for(j=1;j<=n-i;j++)
  {
  printf(" ");
  }
  for(j=1;j<=i;j++){
  printf("* ");
  printf("\n");
  return 0;
}
```

```
*
       ***
      ****
     *****
    *****
   *****
  *****
   *****
    ******
     *****
      ****
       ***
        *
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=1;i<=n;i++){
   for(j=i;j< n;j++){
    printf(" ");
   }
   for(j=1;j<=i+(i-1);j++){
   printf("*");
   printf("\n");
  }
```

```
for(i=n-1;i>=1;i--){
    for(j=1;j<=n-i;j++){}
     printf(" ");
   for(j=1;j<=i+(i-1);j++){
    printf("*");
    }
    printf("\n");
  }
  return 0;
}
or,
#include<stdio.h>
int main()
{
  int i,j,n,k;
  printf("Input:");
  scanf("%d",&n);
  char a[2*n-1][2*n-1];
  char c=' ',b='*';
  for(i=0;i<2*n-1;i++){
    for(j=0;j<2*n-1;j++){
        if(j>=(n-1)-i \&\& j<=(n-1)+i \&\& i<n \mid \mid j>=i-(n-1)
&& i<=3*(n-1)-i && i>n-1){
        a[i][j]=b;
        }
        else
        a[i][j]=c;
```

```
* * * * *
     * * * * *
      * * * * *
       * * * * *
        * * * * *
#include<stdio.h>
int main()
{
 int i,j,n;
 printf("Enter total line:");
 scanf("%d",&n);
 for(i=1;i<=n;i++){
 for(j=1;j<=i+i;j++){}
  printf(" ");
 for(j=1;j<=n;j++){
  printf("* ");
  printf("\n");
 }
 return 0;
```

 Make a program that will print given bellow: Input: 5

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

```
for(j=1;j<=i;j++){
    printf("*");
    }
    printf("\n");
    }
    return 0;
}</pre>
```

 Make a program that will print given bellow: Input: 5

\$ @ @ @ @ # \$ @ @ @ # # \$ @ @ # # # \$ @ # # # \$ @

```
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Input:");
  scanf("%d",&n);
  char a[n][n];
  char c='$',b='@',d='#';
  for(i=0;i<n;i++){
    for(j=0;j< n;j++){
     if(i==i){
        a[i][j]=c;
     }
     if(i < j){
        a[i][j]=b;
     }
     if(i>j){}
        a[i][j]=d;
     }
    }
  for(i=0;i<n;i++){
```

```
for(j=0;j< n;j++){
     printf("%c ",a[i][j]);
   }
   printf("\n");
  }
  return 0;
}

    Make a program that will print given bellow:

   Input:5
     0000
        @ @ @
   #
           @ @
   # #
   # # #
               @
   # # # #
#include<stdio.h>
int main()
{
  int i,j,n;
  printf("Input:");
  scanf("%d",&n);
  char a[n][n];
  char c=' ',b='@',d='#';
  for(i=0;i<n;i++){
   for(j=0;j< n;j++){
     if(i==i){
       a[i][j]=c;
     }
```

 $if(i < j){$

 Make a program that will print given bellow: Input: 5

####

```
#include<stdio.h>
int main()
{
                    int i,j,n,k;
                    printf("Input:");
                    scanf("%d",&n);
                    char a[2*n-1][2*n-1];
                    char c='#',b=' ';
                    for(i=0;i<2*n-1;i++){}
                             for(j=0;j<2*n-1;j++){
                                                              if(j>=(n-1)-i \&\& j<=(n-1)+i \&\& i<n \mid \mid j>=i-(n-1)+i \&\& i<n \mid j>=
 1) && j<=3*(n-1)-i && i>n-1){
                                                              a[i][j]=b;
                                                              }
                                                              else
                                                              a[i][j]=c;
                                         }
                             for(i=0;i<2*n-1;i++){
                             for(i=0;i<2*n-1;j++){
                                         printf("%c ",a[i][j]);
                               }
                               printf("\n");
                    }
                    return 0;
}
```

```
*
               ***
     ***
    ****
             ****
   *****
   ******
   ******
    ****
     ***
               ***
      *
                *
#include<stdio.h>
int main()
{
  int i,j,n,k,l;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=1,k=2*n-1;i<=n;i++,k=k-2)
   for(j=i;j<n;j++){
    printf(" ");
   }
   for(j=1;j<=2*i-1;j++){
   printf("*");
   for(j=1;j< k;j++){
    printf(" ");
   }
   for(j=1;j<=2*i-1;j++){
   printf("*");
```

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

Make a program that will print given bellow:
 Enter total line: 5

```
*
     ***
                ***
    ****
              ****
   *****
             *****
   ******* *****
   *****
    ****
     ***
                ***
      *
                 *
#include<stdio.h>
int main()
{
  int i,j,n,k,l;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=1,k=2*n;i<=n;i++,k=k-2)
   for(j=i;j<n;j++){
    printf(" ");
   }
   for(j=1;j<=2*i-1;j++){
   printf("*");
   for(j=1;j< k;j++){
    printf(" ");
   for(j=1;j<=2*i-1;j++){
```

```
printf("*");
 }
 printf("\n");
}
for(i=n-1,k=2;i>=1;k++,i--){
 for(j=1;j<=n-i;j++){
  printf(" ");
 }
 for(j=1;j<=2*i-1;j++){
 printf("*");
 l=2*k-1;
 for(j=1;j<=l;j++){
  printf(" ");
 }
 for(j=1;j<=2*i-1;j++){
 printf("*");
 printf("\n");
```

}

return 0;

Make a program that will print given bellow: Enter total line: 7

```
*
       ***
                      ***
      ****
                     ****
     *****
                    *****
    *****
                   *****
   *******
  ********
#include<stdio.h>
int main()
{
  int i,j,n,k,l;
  printf("Enter total line : ");
  scanf("%d",&n);
  for(i=1,k=2*n;i<=n;i++,k=k-2)
   for(j=i;j<n;j++){
    printf(" ");
   }
   for(j=1;j\leq 2*i-1;j++){
   printf("*");
   for(j=1;j< k;j++){
    printf(" ");
   }
   for(j=1;j<=2*i-1;j++){
   printf("*");
   printf("\n");
  }
  return 0;
}
```

```
***
          ***
   *****
    *** ***
     *
           *
#include<stdio.h>
int main()
{
  int i,j,n,k,l;
  printf("Input: ");
  scanf("%d",&n);
  n=n-2;
  for(i=1,k=2*n-1;i<=n;i++,k=k-2){
   for(j=i;j<n;j++){
     printf(" ");
   for(j=1;j<=2*i-1;j++){
   printf("*");
   }
   for(j=1;j< k;j++){
     printf(" ");
   for(j=1;j<=2*i-1;j++){
   printf("*");
   printf("\n");
  }
```

```
for(i=n-1,k=2;i>=1;k++,i--){
   for(j=1;j<=n-i;j++){
    printf(" ");
   for(j=1;j<=2*i-1;j++){
   printf("*");
   }
   I=2*k-1;
   for(j=1;j<l;j++){
    printf(" ");
   for(j=1;j\leq 2*i-1;j++){
   printf("*");
   printf("\n");
  }
  return 0;
```

 Make a program that will print given bellow: Enter input: 5

```
@@@@@
     @@@
        @
      @@@
    @@@@@
#include<stdio.h>
int main()
{
 int n,i,j,k;
 printf("Enter input : ");
 scanf("%d",&n);
 while(n\%2==0){
  printf("Incorrect input. Plese, give odd number
: ");
  scanf("%d",&n);
 char x[n][n];
 char a='?',b='@',c=' ';
 for(i=0,k=n-1;i< n;i++,k--)
  for(j=0;j< n;j++){
   if(i \le i \&\& k \ge j \mid | i \ge j \&\& k \le j){
     x[i][j]=b;
   else
   x[i][j]=c;
  }
```

```
for(i=0,k=n-1;i<n;i++,k--){
  for(j=0;j<n;j++){
    printf("%c",x[i][j]);
  }
  printf("\n");
}</pre>
```

 Make a program that will print given bellow: Enter input: 5

```
@ @ @ @ @ @ @ @ include<stdio.h>
```

```
#include<stdio.h>
int main()
{
 int n,i,j,k;
 printf("Enter input:");
 scanf("%d",&n);
 while(n%2==0){
  printf("Incorrect input. Plese, give odd number
: ");
  scanf("%d",&n);
 }
 char x[n][n];
 char a='?',b='@',c=' ';
 for(i=0,k=n-1;i< n;i++,k--){
  for(i=0;i< n;i++){}
    if(i==j \&\& i!=k \mid \mid k==j \&\& i!=k){
     x[i][j]=b;
    else if(i==j \&\& i==k){
     x[i][j]=a;
    }
```

```
else
    x[i][j]=c;
}
for(i=0,k=n-1;i<n;i++,k--){
    for(j=0;j<n;j++){
        printf("%c",x[i][j]);
    }
    printf("\n");
}</pre>
```

@

@

@

@

Make a program that will print given bellow:
 Enter input: 8
 Incorrect input. Plese, give odd number: 7

```
#include<stdio.h>
int main()
{
 int n,i,j,k;
 printf("Enter input:");
 scanf("%d",&n);
 while(n%2==0){
  printf("Incorrect input. Plese, give odd number
: ");
  scanf("%d",&n);
 char x[n][n];
 char a='?',b='@',c=' ';
 for(i=0,k=n-1;i< n;i++,k--){
  for(j=0;j< n;j++){
    if(i==| | | k==|){
     x[i][j]=b;
    }
    else
   x[i][j]=c;
  }
 }
 for(i=0,k=n-1;i< n;i++,k--){}
  for(j=0;j< n;j++){
    printf("%c",x[i][j]);
  }
  printf("\n");
 }
}
```

```
Enter input:5
   #
                 &
   &&
                ##
   ###
              &&&
   &&&&
             ####
   #####&&&&&&
#include<stdio.h>
int main()
{
 int n,i,j,k;
 printf("Enter input:");
 scanf("%d",&n);
 char x[n][2*n];
 char a='&',b='#',c='#',d=' ';
 for(i=0,k=2*n-1;i<n;i++,k--)
  for(j=0;j<2*n;j++){
   if(i < j \&\& k > j){
     x[i][i]=d;
   }
   else if(j<n && (i%2!=0)){
     x[i][j]=a;
   }
    else if(j \ge n && (i\%2 = = 0)){
     x[i][j]=a;
   }
   else
   x[i][i]=c;
  }
 }
```

```
for(i=0,k=2*n-1;i<n;i++,k--){
  for(j=0;j<2*n;j++){
    printf("%c",x[i][j]);
  }
  printf("\n");
  }
}</pre>
```

```
//Number 7 :
#include<stdio.h>
int main()
{
 int n,i,j,k;
 scanf("%d",&n);
 while(n%2==0){
  printf("Incorrect input. Plese, give odd number:
");
  scanf("%d",&n);
 char x[n][n];
 char a='@',b=' ';
 for(i=0,k=n-1;i< n;i++,k--)
  for(j=0;j< n;j++){
    if(i==(n-1)/2 \&\& j==((n-1)/2)-1 \mid | i==(n-1)/2 \&\&
j==((n-1)/2)+1 \mid j==((n-1)/2)-1 \&\& j==(n-1)/2 \mid j==
((n-1)/2)+1 \&\& j==(n-1)/2)
    x[i][j]=b;
    else
    x[i][i]=a;
  }
 }
 for(i=0,k=n-1;i< n;i++,k--){}
  for(j=0;j< n;j++){
    printf("%c ",x[i][j]);
  }
  printf("\n");
 }
}
```

```
****
              ****
    *****
   ******
  ******
    *****
     *****
      *****
       *****
        *****
         ****
          ***
           *
#include<stdio.h>
int main()
{
 int i,j,k,l,n=10;
 char a[12][33],h='*',b=' ':
 for(i=0;i<12;i++){
  for(j=0;j<17;j++)
    if(i<3 \&\& j>=(n-8)-i \&\& j<=(n-5)+i){
     a[i][j]=h;
    }
    else if(i<3 && j>=(n+1)-i && j<=(n+4)+i){
     a[i][i]=h;
    }
    else if(i>2 && j>=i-3 && j<=19-i){
     a[i][i]=h;
    }
    else
    a[i][j]=b;
```

```
}
}
for(i=0;i<12;i++){
  for(j=0;j<17;j++){
    printf("%c",a[i][j]);
  }
  printf("\n");
}
return 0;
}</pre>
```

```
#include<stdio.h>
int main()
{
 int i,j,k,l,n=10;
 char a[12][33],h='*',b=' ';
 for(i=0;i<12;i++){
  for(j=0;j<17;j++){
     if(i<3 \&\& j>=(n-8)-i \&\& j<=(n-5)+i){
      a[i][j]=h;
     }
     else if(i<3 && j>=(n+1)-i && j<=(n+4)+i){
      a[i][j]=h;
     }
     else if(i>2 && j>=i-3 && j<=19-i){
      a[i][j]=h;
     }
     else
     a[i][j]=b;
```

```
}
}
for(i=0;i<12;i++){
  for(j=0;j<17;j++){
    printf("%c ",a[i][j]);
  }
  printf("\n");
}
return 0;
}</pre>
```

```
*****
                 *****
 *****
               *****
*********
*********
********
  ********
   ******
     ******
      *****
        *****
          *****
            ***
#include<stdio.h>
int main()
int i,j,k,n=10,d;
char love[13][31],c='*',b=' ';
for(i=0,k=0;i<13;i++,k=k+2){}
if(i==5){
 k=k-1:
for(j=0;j<31;j++){
 if(i<3 \&\& ((i>=(n-7)-k \&\& i<=(n-1)+k) | | (i>=
(2*n+1)-k \&\& j <= (2*n+7)+k))){
  love[i][i]=c;
 else if(i>2 && (j>=k-7 && j<=37-k) || (i==12 &&
i==15)
  love[i][j]=c;
```

```
}
else
love[i][j]=b;
}
}
for(i=0;i<13;i++){}
for(j=0;j<31;j++){
printf("%c",love[i][j]);
}
printf("\n");
}
return 0;
}
or,
#include<stdio.h>
int main()
{
 int i,j,k,n=10;
 for(i=0,k=0;i<13;i++,k=i*2){
  if(i > = 5){
    k=k-1:
  }
  for(j=0;j<31;j++){
     if(i<3 \&\& ((j>=(n-7)-k \&\& j<=(n-1)+k) | | (j>=
(2*n+1)-k &  i <= (2*n+7)+k))){
      printf("*");
     else if(i>2 && (j>=k-7 && j<=37-k) || (i==12
\&\& j==15)
      printf("*");
     }
```

```
else
printf(" ");
}
printf("\n");
}
return 0;
```

• Make a movable Love:

```
#include <stdio.h>
#include <unistd.h>
void Love(){
  for (;;) {
     printf("\033[H\033[2]");
     int a = 27, n = 0, l = 0, m=10;
     for (int i=0,k=0;i<13;i++,k=k+2) {
       for (int t = 1; t <= 1; t++) {
          printf(" ");
       }
       if(i==5){
          k=k-1:
       }
       for (int j=0;j<31;j++) {
          if(i<3 \&\& ((j>=(m-7)-k \&\& j<=(m-1)+k) | |
(i>=(2*m+1)-k &  i<=(2*m+7)+k))){
             printf("*");
          }
          else if(i>2 && (j>=k-7 && j<=37-k) ||
(i==12 \&\& i==15)
             printf("*");
          }
          else
             printf(" ");
       }
       printf("\n");
       if (i == 12 \&\& n < a) {
          n++;
```

```
i = -1;
k=-2;
l = n * 3;
usleep(100000);
printf("\033[H");
}
}
}
int main() {
Love();
```

 Make a program that will print given bellow: Enter your crash name: Hrdz
 Enter your name: Hamim
 Enter your favourite letter/digit:.

*****	•••••	****	

*****	•••••	****	

****	•••••	***	****
****	•••••	****	***
****	Hrdz	****	

****	+	****	

****	Hamim	****	

****	•••••	****	****
****	***********	****	****
****	•••••	***	****
****	•••••	****	****
*****	•••		
*****	*****		

*****	· :****		

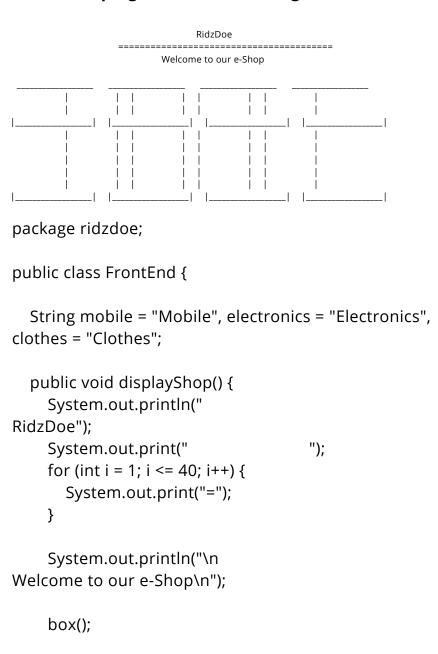
```
#include<stdio.h>
#include<string.h>
int main()
{
 int i,j,k,n=10,d,z;
 char Love[13][31],I U[13]
[31], star='*', special character, blank='
',Lover name[20],Your name[20];
 printf("Enter your crush name : ");
 gets(Lover name);
 printf("Enter your name: ");
 gets(Your name);
 printf("Enter your special letter/digit : ");
 scanf("%c",&special character);
 printf("\n\n");
 int s,l,c,p,m,g;
 s=strlen(Lover name);
 l=strlen(Your name);
 c=15-(s/2);
 p=c+s;
 m=15-(1/2);
 g=m+l;
 for(i=0,k=0;i<13;i++,k=k+2){
   if(i==5){
    k=k-1;
   for(j=0;j<31;j++){
     if(i==4 \&\& j>=c \&\& j<p){
       Love[i][c-1]=blank;
       for(d=0,j=c; Lover name[d]!='\0';d++,j++){
         Love[i][j]=Lover name[d];
```

```
if(Lover name[d+1]=='\0'){
           Love[i][j+1]=blank;
         }
       }
     }
     else if(i==6 \&\& j>=m \&\& j< g){
       Love[i][m-1]=blank;
       for(d=0,j=m; Your name[d]!='\0';d++,j++){
         Love[i][j]=Your name[d];
         if(Lover name[d+1]=='\0'){
           Love[i][j+1]=blank;
         }
       else
         Love[i][j+1]=blank;
       }
     }
     else if(i<3 && ((j>=(n-7)-k && j<=(n-1)+k) | |
(j>=(2*n+1)-k \&\& j<=(2*n+7)+k))){
       Love[i][j]=special_character;
     }
     else if(i>2 && j>=k-7 && j<=37-k || i==12 &&
j==15){
       Love[5][14]=blank;
       Love[5][16]=blank;
       if(i==5 \&\& i==15){
         Love[i][j]='+';
       }
       else
       Love[i][j]=special_character;
     }
    else
```

```
Love[i][j]=blank;
   }
  }
 for(i=0;i<13;i++){
    for(z=0;z<31;z++){
      if((i<2 \mid | i>10) \&\& z>=0 \&\& z<=7){
        I U[i][z]=star;
     }
      else if(i>1 && i<11 && z>=2 && z<=5){
        I U[i][z]=star;
      else if((i>=0 && i<=10) && (z>=8 && z<=11 | |
z > = 24 \&\& z < = 27)
        I U[i][z]=star;
     }
      else if(i==11 && (z>=8 && z<=27) || i==12
&& (z \ge 9 \&\& z \le 26)
        I U[i][z]=star;
     }
     else
      I U[i][z]=blank;
   }
  }
  for(i=0;i<13;i++){}
   z=0;
   while(z<8){
      printf("%c",I_U[i][z]);
     Z++;
   }
    if(z==8){}
      printf("\t");
    }
```

```
j=0;
while(j<31){
    printf("%c",Love[i][j]);
    j++;
}
if(j==31){
    printf("\t\t");
}
while(z<31){
    printf("%c",I_U[i][z]);
    z++;
}
printf("\n");
}
printf("\n");
return 0;</pre>
```

Write a program that will show given bellow.



```
public void box() {
     int a = 4;
     for (int i = 1, n = 1; i \le 10; i++, n++) {
        for (int j = 1; j \le 20; j++) {
          if ((i == 1 | | i == 4 | | i == 10) && (j > 1 && j <
20)) {
             System.out.print("_");
          }
          else if ((i > 1) && (j == 1 | | j == 20)) {
             System.out.print("|");
          }
          else
             System.out.print(" ");
        }
        if (n \le a-1) {
          System.out.print(" ");
          i--;
        }
        else{
          n=0;
          System.out.println();
        }
     }
     System.out.println();
  }
```

```
package ridzdoe;

public class Shop {
    public static void main(String[] args) {
        FrontEnd ob1 = new FrontEnd();
        ob1.displayShop();
    }
}
```

· Write a program that will show given bellow.

{}

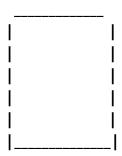
```
public class Test {
  public static void main(String[] args) {
     for (;;) {
       System.out.print("\033[H\033[2J");
       int a = 10, n = 0, l = 0;
       for (int i = 1; i \le 5; i++) {
          for (int t = 1; t <= 1; t++) {
             System.out.print(" ");
          }
          for (int j = 1; j \le 10; j++) {
             for (double y = .1; y < 100000; y = y + 0.01) {}
             System.out.print(i);
          }
          System.out.println();
          if (i == 5 \&\& n < a) {
             n++;
             i = 0;
             l = n * 14;
             for (double y = .1; y < 100000; y = y + 0.001)
```

• Write a program that will show given bellow.

_____|

```
public class Jim{
  public static void main(String[] args) {
     for(;;){
       System.out.print("\033[H\033[2]");
       int a=50, n=0, l=0;
       for(int i=1;i<=2; i++){
          for(int t=1;t<=l;t++){
            System.out.print(" ");
          for(int j=1;j<=10;j++){
            if(i==2 \&\& (j==1 | | j==10)){}
               System.out.print("|");
            }
            else if(j > 2 \& j < 9){
               System.out.print("_");
            }
            else
            System.out.print(" ");
          }
          System.out.println();
          if(i==2 \&\& n<a){}
             n++;
            i=0;
            I=n*3:
            for(double y=.1;y<100000;y=y+0.003){
            }
```

Write a program that will show given bellow.



```
public class Hulk{
  public static void main(String[] args) {
     for(;;){
       System.out.print("\033[H\033[2J");
       int a=47, n=0, l=0;
       for(int i=1;i<=7; i++){
          for(int t=1;t<=l;t++){
             System.out.print(" ");
          }
          for(int j=1;j<=15;j++){
             if((i \ge 2 \& i \le 7) \& \& (j = 1 | | j = 15)){
               System.out.print("|");
             else if((i==1 | i==7)&&(i>=2&&i<=14)){
               System.out.print("_");
             }
             else
            System.out.print(" ");
          }
          System.out.println();
          if(i==7 \&\& n<a){}
             n++;
```

```
i=0;
l=n*3;
for(double y=.1;y<100000;y=y+0.002){}
    System.out.print("\u001B[H");
    }
    }
}
```

• Write a program that will show given bellow.

```
public static void main(String[] args) {
     for(;;){
        System.out.print("\033[H\033[2J");
        int a=47, n=0, l=0;
        for(int i=1; i <=7; i++){
          for(int t=1;t<=l;t++){
             System.out.print(" ");
          }
          for(int j=1;j<=15;j++){
             if((i \ge 2 \& \& i \le 7) \& \& ((j \ge 1 \& \& j \le 3) | |
(i>=13&&i<=15))){
                System.out.print("|");
             else if((i==1||i==2|| i==6||i==7)&&
(i>=4 | i<=12)
                System.out.print("_");
             }
             else
             System.out.print(" ");
          }
          System.out.println();
```

```
if(i==7 && n<a){
    n++;
    i=0;
    l=n*3;
    for(double y=.1;y<100000;y=y+0.002){}
    System.out.print("\u001B[H");
    }
    }
}</pre>
```

 Make a program that will print given bellow: Enter your crash name: Hrdz
 Enter your name: Hamim
 Enter your favourite letter/digit:.

*****	•••••	****	

*****	•••••	****	

****	•••••	***	****
****	•••••	****	***
****	Hrdz	****	

****	+	****	

****	Hamim	****	

****	•••••	****	****
****	***********	****	****
****	•••••	***	****
****	•••••	****	****
*****	•••		
*****	*****		

*****	· :****		

```
#include <stdio.h>
void slowDown(double d){
   for(double y=.1;y<100000;y=y+d){}
}
void I(int I){
  int i, z;
  for(i=0;i<13;i++){}
     for (int t = 0; t < l; t++) {
          printf(" ");
     for(z=0;z<8;z++){}
        slowDown(.02);
      if((i<2 \mid | i>10) \&\& z>=0 \&\& z<=7){
        printf("*");
     }
      else if(i>1 && i<11 && z>=2 && z<=5){
        printf("*");
     }
      else
      printf(" ");
    }
    for(int t=1;t<90;t++){printf(" ");}
    printf("\n");
 }
}
void Love(int I){
  int i,j,k,n=10;
  for(i=0,k=0;i<13;i++,k=i*2){
     for (int t = 0; t < l; t++) {
```

```
printf(" ");
     }
     if(i > = 5){
      k=k-1;
     }
     for(j=0;j<31;j++){
       slowDown(.05);
       if(i<3 \&\& ((j>=(n-7)-k \&\& j<=(n-1)+k) | | (j>=
printf("*");
       else if(i>2 && (j>=k-7 && j<=37-k) | | (i==12 &&
j==15)
          printf("*");
       }
       else
          printf(" ");
  }
  printf("\n");
 }
}
void U(int I){
  int i, z;
  for(i=0;i<13;i++){
     for (int t = 0; t < l; t++) {
          printf(" ");
     }
    for(z=0;z<20;z++){}
     slowDown(.04);
```

```
if((i>=0 && i<=10) && (z>=0 && z<=3|| z>=16 &&
z <= 19)){
        printf("*");
      }
      else if(i==11 && (z>=0 && z<=19) || i==12 &&
(z>=1 \&\& z<=18)){
        printf("*");
      }
      else
      printf(" ");
    printf("\n");
  }
}
void I L U(){
  for(;;){
     printf("\033[H\033[2]");
     int a = 3, n = 0, l=1;
     for (int i=1;i<=3;i++) {
        if(i==1){
           I(I);
           I = I + 12;
        }else if(i==2){
           Love(I);
          I = I + 39;
        }else if(i==3){
          U(I);
           | = | +24;
        }
```

```
printf("\033[H");
    if(i==3 && n<=a){
        i=0;
        n++;
        l=n*25;\
        slowDown(.001);
        printf("\033[H");
        }
    }
    }
}
int main() {
    I_L_U();</pre>
```

