**This pdf is made with basic c programs for understanding the logics.the methods which i have used may confuse you ,but can be understood through practice.You can get the essence of the logic by running this in your text editors.**

**Happy coding..**

**//to check whether the number is adams number**

#include<stdio.h>

int main()

{

int num,sq\_num,rev\_num1=0,rev\_num2=0,sq\_num2,tnum;

printf("enter the number");

scanf("%d",&num);

sq\_num=num\*num;

tnum=num;

while(tnum>0)

{

rev\_num1=rev\_num1\*10+tnum%10;

tnum=tnum/10;

}

printf("\nrev\_num1 is %d \n",rev\_num1);

sq\_num2=rev\_num1\*rev\_num1;

while(sq\_num2>0)

{

rev\_num2=rev\_num2\*10+sq\_num2%10;

sq\_num2=sq\_num2/10;

}

printf("\nrev\_num2 is %d \n",rev\_num2);

if(sq\_num==rev\_num2)

printf("the number %d is the adams number",num);

else

printf("the number %d is not an adams number",num);

return 0;

}

**// to check whether the number is armstrong number**

#include<stdio.h>

#include<math.h>

int main()

{

int count=0,sum=0,num,tnum,j,i,res=0,b,c;

printf("enter a number \n");//153

scanf("%d",&num);

printf("the number is %d",num);

tnum=num;//tnum=153

i=num;//i=153

//length of the number

while(i!=0)

{

count=count+1;

i=i/10;// i=153,c=1;i=15,c=2;i=1,c=3;

}

printf("the length is %d",count);

while(tnum>0)

{

b=tnum%10;//3loop1<3

//printf("\nb is%d",b);

j=1;

c=1;

while(j<=count)

{

c=c\*b;

//printf("c is %d",c);

j=j+1;

res=c;

}

sum=sum+res;

tnum=tnum/10;

}

if(num==sum)

printf("\nthe number %d is the armstrong number",num);

else

printf("the number %d is not an armstrong number",num);

return 0;

}

**//exponent**

#include<stdio.h>

int main()

{

int base,exp,i,ans=1;

printf("enter the base and exponential");

scanf("%d \n %d",&base,&exp);

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

{

ans=ans\*base;

}

printf("th answer is %d",ans);

return 0;

}

**//reversing a number**

#include<stdio.h>

int main()

{

int rev\_num=0,num,i;

printf("enter a number\n");

scanf("%d",&num);

for(i=num;i>0;)

{

rev\_num=rev\_num\*10+i%10;

i=i/10;

}

printf("the reversed num is %d",rev\_num);

return 0;

}

**//factorial of a number**

#include<stdio.h>

int main()

{

int i,num,ans=1;

printf("enter a number");

scanf("%d",&num);

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

{

ans=ans\*i;

}

printf("\nthe factorial is%d",ans);

return 0;

}

/**/ indha program oda output ketaaru**

#include<stdio.h>

int main()

{

int i=0;

while(i<10)

{

i++;

printf("hi\n");

while(i<8)

{

i++;

printf("hello\n");

}

}

return 0;

}

**//check whether the given number is betrothed number or not**

#include<stdio.h>

int main()

{

int n1,n2,i,j,sum1=0,sum2=0;

printf("enter a number1,num2\n");

scanf("%d\n",&n1);

scanf("%d\n",&n2);

for(i=1;i<=n1/2;i++)

{

if(n1%i==0)

{

sum1=sum1+i;

}

}

for(j=1;j<=n2/2;j++)

{

if(n2%j==0)

{

sum2=sum2+j;

}

}

if(sum1==++n2 && sum2==++n1)

printf("\nbetrothed number");

else

printf("\nbetrothed number");

return 0;

}

**//harshad number**

#include<stdio.h>

int main()

{

int num,sum=0;

printf("enter a number\n");

scanf("%d",&num);

while(num>0)

{

sum=sum+num%10;

num=num/10;

}

if(num%sum==0)

printf("\nharshad number");

else

printf("\n not a harshad number");

return 0;

}

**//switch case**

#include<stdio.h>

int main()

{

int i=3;

switch (i)

{

case 0+1:printf("geeks");

break;

case 1+2:printf("Quiz");

break;

default: printf("geeksquiz");

}

return 0;

}

**//convert small letter to caps letter**

#include<stdio.h>

int main()

{

char c;

printf("enter the small letter character\n");

scanf("%c",&c);

printf("\nthe caps letter of %c is %c",c,c-32);

return 0;

}

//**check whether a number is prime or not#method1**

#include<stdio.h>

int main()

{

int n,i,j=0;

printf("enter a number\n");

scanf("%d",&n);

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

{

if(n%i==0)

j=j+1;

}

if(j==2)

{

printf(" \n%d is a prime number",n);

}

else

{

printf(" \n %d is not a prime number",n);

}

return 0;

}

**//check whether a number is prime or not #method 2**

#include<stdio.h>

int main()

{

int n,i,j=0;

printf("enter a number\n");

scanf("%d",&n);

for(i=2;i<=n/2;i++)

{

if(n%i==0)

j=j+1;

}

if(j==0)

{

printf(" \n%d is a prime number",n);

}

else

{

printf(" \n %d is not a prime number",n);

}

return 0;

}

**// find whether a number is prime or not method 3**

//check whether a number is prime or not/# method 3

#include<stdio.h>

int main()

{

int n,i,flag=0;

printf("enter a number\n");

scanf("%d",&n);

for(i=2;i<n;i++)

{

if(n%i==0)

{

flag=1;

break;

}

}

if(flag==0)

{

printf(" \n%d is a prime number",n);

}

else

{

printf(" \n %d is not a prime number",n);

}

return 0;

}

**Pattern no 1**

**//\*\*\*\*\*\*\*\*\***

**#include<stdio.h>**

**int main()**

**{**

**int i,num;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**printf("\*");**

**}**

**return 0;**

**}**

**Pattern no 2**

**//program for pattern coding print star in  rows and columns**

**/\***

**\* \* \* \* \***

**\* \* \* \* \***

**\* \* \* \* \***

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**\* \* \* \* \***

**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int i,j,num;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**for(j=1;j<=num;j++)**

**{**

**printf("\* ");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 3**

//program to print half pyramid star pattern

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**\* \***

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**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int i,j,num;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**for(j=num;j<=i;j++)**

**{**

**printf("\*");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 4**

**//program to print inverted half pyramid star pattern**

**/\***

**\* \* \* \* \***

**\* \* \* \***

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**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int i,j,num,k=0,m=0,l;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**for(j=1;j<=num-k;j++)**

**{**

**printf("\* ");**

**}**

**printf("\n");**

**k=k+1;**

**m=m+1;**

**for(l=1;l<=m;l++)**

**{**

**printf(" ");**

**}**

**}**

**return 0;**

**}**

**pattern no 5**

**/\***

**program for star pattern**

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**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int i,j,num,k=0,m=0,l;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**for(j=1;j<=num-k;j++)**

**{**

**printf("\*");**

**}**

**printf("\n");**

**k=k+1;**

**m=m+1;**

**for(l=1;l<=m;l++)**

**{**

**printf(" ");**

**}**

**}**

**return 0;**

**}**

**Pattern no 6**

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**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int i,j,num,k=0;**

**printf("enter a number");**

**scanf("\n%d",&num);**

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

**{**

**for(j=1;j<=num-k;j++)**

**{**

**printf("\*");**

**}**

**k=k+1;**

**printf("\n");**

**}**

**return 0;**

**}**

**7.10.2020**

**Pattern no 7**

Star pattern

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**star pattern**

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**#include<stdio.h>**

**int main()**

**{**

**int num,row,col;**

**printf("enter a number");**

**scanf("\n%d",&num);**

**for(row=1;row<=num;row++)**

**{**

**for(col=1;col<=num;col++)**

**{**

**if(row==1 || row==num || col==1 || col==num)**

**{**

**printf("\*");**

**}**

**else**

**printf(" ");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 8**

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**#include<stdio.h>**

**int main()**

**{**

**int num,row,n,col;**

**printf("enter a number");**

**scanf("\n%d",&num);**

**n=2\*num-1;**

**for(row=1;row<=n;row++)**

**{**

**for(col=1;col<=n;col++)**

**{**

**if(row==col || col==n-row+1)**

**{**

**printf("\*");**

**}**

**else**

**printf(" ");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 9**

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**\*/**

**#include<stdio.h>**

**int main()**

**{**

**int n,row,spc,col;**

**printf("enter a number");**

**scanf("\n%d",&n);**

**for(row=1;row<=n;row++)**

**{**

**for(spc=1;spc<row;spc++)**

**{**

**printf(" ");**

**}**

**for(col=1;col<=n;col++)**

**{**

**printf("\*");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 10**

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**#include<stdio.h>**

**int main()**

**{**

**int num,row,n,col;**

**printf("enter a number");**

**scanf("\n%d",&num);**

**n=2\*num-1;**

**for(row=1;row<=n;row++)**

**{**

**for(col=1;col<=n;col++)**

**{**

**if(row==col || col==n-row+1 || row==1 ||   col==1|| row==n ||col==n )**

**{**

**printf("\*");**

**}**

**else**

**printf(" ");**

**}**

**printf("\n");**

**}**

**return 0;**

**}**

**Pattern no 11**

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#include<stdio.h>

int main()

{

int n,row,spc,col;

printf("enter a number");

scanf("\n%d",&n);

for(row=1;row<=n;row++)

{

for(spc=1;spc<=n-row;spc++)

{

      printf(" ");

    }

    for(col=1;col<=2\*row-1;col++)

{

      printf("\*");

    }

  printf("\n");

}

return 0;

}

**Pattern 12**

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#include<stdio.h>

int main()

{

int n,row,spc,col,k=0;

printf("enter a number");

scanf("\n%d",&n);

for(row=1;row<=n;row++)

{

for(spc=1;spc<row;spc++)

{

      printf(" ");

    }

    for(col=1;col<=2\*n-row-k;col++)

{

      printf("\*");

    }

    k=k+1;

  printf("\n");

}

return 0;

}

**Pattern no13**

Butterfly pattern

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#include<stdio.h>

int main()

{

int n,row,spc,col,str;

printf("enter a number\n");

scanf("%d",&n);

for(row=1;row<=(2\*n)/2;row++)

{

for(col=1;col<=row;col++)

{

            printf("\*");

        }

        for(spc=1;spc<=2\*n-2\*row;spc++)

        {

            printf(" ");

        }

        for(str=1;str<=row;str++)

        {

            printf("\*");

        }

printf("\n");

}

for(row=0;row<(2\*n)/2;row++)

{

for(col=1;col<=(2\*n)/2-row;col++)

{

            printf("\*");

}

for(spc=0;spc<2\*row;spc++)

        {

            printf(" ");

        }

        for(str=1;str<=(2\*n)/2-row;str++)

        {

            printf("\*");

        }

         printf("\n");

}

return 0;

}

**Pattern no 14**

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#include<stdio.h>

int main()

{

   int n,spc,row,col;

   printf("enter a number");

   scanf("%d",&n);

   for(row=0;row<(2\*n)/2;row++)

   {

    for(col=1;col<=(2\*n)/2-row;col++)

    {

    printf("\*");

    }

    for(spc=0;spc<2\*row;spc++)

    {

    printf(" ");

    }

    for(col=1;col<=(2\*n)/2-row;col++)

    {

    printf("\*");

    }

     printf("\n");

   }

   for(row=1;row<=(2\*n)/2;row++)

   {

    for(col=1;col<=row;col++)

    {

    printf("\*");

    }

    for(spc=1;spc<=2\*n-2\*row;spc++)

    {

    printf(" ");

    }

    for(col=1;col<=row;col++)

    {

    printf("\*");

    }

    printf("\n");

   }

   return 0;

}

**Array**

**Program to print the array values**

**#include<stdio.h>**

**int main()**

**{**

**int n,i;**

**printf("enter the number of valu\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**arr[3]=65;**

**printf("the values of array are\n");**

**for(i=0;i<n;i++)**

**{**

**printf("%d ",arr[i]);**

**}**

**return 0;**

**}**

**//program to print sum of an array elements**

**#include<stdio.h>**

**int main()**

**{**

**int n,i,sum=0;**

**printf("enter the number of valu\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**for(i=0;i<n;i++)**

**{**

**sum=sum+arr[i];**

**}**

**printf("the sum of the elements in array is %d",sum);**

**return 0;**

**}**

**// program to find maximum value in an array**

**#include<stdio.h>**

**int main()**

**{**

**int n,i;**

**printf("enter the number of valu\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**int max=arr[0];**

**for(i=0;i<n;i++)**

**{**

**if(max<arr[i])**

**max=arr[i];**

**}**

**printf("the maximum value  in  an array is %d",max);**

**return 0;**

**}**

**//program to find minimum value in an array**

**#include<stdio.h>**

**int main()**

**{**

**int n,i;**

**printf("enter the number of valu\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**int min=arr[0];**

**for(i=0;i<n;i++)**

**{**

**if(min>arr[i])**

**min=arr[i];**

**}**

**printf("the maximum value  in  an array is %d",min);**

**return 0;**

**}**

//program for Linear search

**#include<stdio.h>**

**int main()**

**{**

**int n,i,key,flag=0;**

**printf("enter the number of valu\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**printf("enter a key value\n");**

**scanf("%d",&key);**

**for(i=0;i<n;i++)**

**{**

**if(arr[i]==key)**

**{**

**flag=1;**

**break;**

**}**

**}**

**if(flag==1)**

**{**

**printf("\nkey value is found");**

**}**

**else**

**{**

**printf("\n key value is not found");**

**}**

**return 0;**

**}**

**//program for binary search for sorted array**

**#include<stdio.h>**

**int main()**

**{**

**int str,n,end,mid,key,i,flag=0;**

**printf("enter the number of elements in an array\n ");**

**scanf("%d",&n);**

**int arr[n];**

**printf("enter the array values\n");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**printf("enter a key value\n");**

**scanf("%d",&key);**

**str=0;**

**end=n-1;**

**while(str<=end)**

**{**

**mid=(str+end)/2;**

**if(arr[mid]==key)**

**{**

**flag=1;**

**break;**

**}**

**else if (arr[mid]>key)**

**{**

**end=mid-1;**

**}**

**else if(arr[mid]<key)**

**{**

**str=mid+1;**

**}**

**else**

**flag=0;**

**}**

**if(flag==1)**

**{**

**printf("\nkey value is found");**

**}**

**else**

**{**

**printf("\n key value is not found");**

**}**

**return 0;**

**}**

**//program to print value in the pointer**

**#include<stdio.h>**

**int main()**

**{**

**int \*ptr,a;**

**a=10;**

**ptr=&a;**

**printf("the address of a is %d\n",&a);**

**printf("the ptr is %d\n",\*ptr);**

**return 0;**

**}**

**//call by value**

**#include<stdio.h>**

**int countdigits(int num)**

**{**

**int count=0;**

**while(num>0)**

**{**

**count=count+1;**

**num=num/10;**

**}**

**return count;**

**}**

**int main()**

**{**

**int n;**

**printf("enter a number\n");**

**scanf("%d",&n);**

**printf(" the number of digits of %d is %d",n,countdigits(n));**

**return 0;**

**}**

**//call by reference**

#include<stdio.h>

int swap(int \*n1,int \*n2)

{

int temp;

temp=\*n1;

\*n1=\*n2;

\*n2=temp;

return \*n1,\*n2;

}

int main()

{

int a,b;

printf("enter the values of a and b");

scanf("%d %d",&a,&b);

swap(&a,&b);

printf("the values of a=%d and b=%d",a,b);

}

**//function call using array**

#include<stdio.h>

tri(int \*arr,int n)

{

int i;

for(i=0;i<n;i++)

{

printf("%d\n",\*(arr+i));

}

return 0;

}

int main()

{

int arr[]={1,2,3,4,5};

tri(arr,5);

return 0;

}

**//program for structure**

#include<stdio.h>

struct student

{

float per;

char grade;

long int rollno;

int mark;

};

int main()

{

 struct student var;

 var.per=93.5;

 var.grade='A';

 var.rollno=202059;

 var.mark=100;

 printf("%f\n",var.per);

 printf("%c\n",var.grade);

 printf("%ld\n",var.rollno);

 printf("%d\n",var.mark);

 return 0;

}

**//program to print length of the string**

#include<stdio.h>

int main()

{

char c[10];

int len=0,i;

printf("enter a string");

scanf("%[^\n]s",c);

for(i=0;c[i]!='\0';i++)

{

len++;

}

printf("the lenghth of the string is %d",len);

return 0;

}

**//prgram to find a character in a string**

#include<stdio.h>

int main()

{

char str[10];

char c;

int i,flag=0;

printf("enter a character\n ");

scanf("%c",&c);

printf("\nenter a string");

scanf("%s",str);

for(i=0;str[i]!='\0';i++)

{

if(str[i]==c)

{

flag=1;

break;

}

}

if(flag==1)

printf("\n the character is found");

else

printf("\nthe character is not found");

return 0;

}

**//prgram to replace vowel with a space**

#include<stdio.h>

int main()

{

char str[10],vow[6]={'a','e','i','o','u'};

int i,j;

printf("\nenter a string\n");

scanf("%s",str);

for(i=0;str[i]!='\0';i++)

{

for(j=0;vow[j]!='\0';j++)

{

if(str[i]==vow[j])

  str[i]=' ';

}

}

printf("\nthe replaced word is \n ");

printf("\t %s",str);

return 0;

}

**#program to calculate number of capital letters in a string**

#include<stdio.h>

int main()

{

char str[10];

int i,j,count=0;

printf("\nenter a string\n");

scanf("%s",str);

for(i=0;str[i]!='\0';i++)

{

for(j=65;j<=90;j++)

{

if(str[i]==j)

  count=count+1;

}

}

printf("\nno of caps letter is \n ");

printf("\t %d",count);

return 0;

}

***//compete cell problem***

***day, for each cell, if its neighbours are both active or both inactive, the cell becomes inactive the next day, otherwise it becomes***

***active the next day.***

***Assumptions: The two cells on the ends have single adjacent cell, so the other adjacent cell can be assumed to be always inactive.***

***Even after updating the cell state. consider its previous state for updating the state of other cells. Update the cell information of all***

***cells simultaneously. Write a function cellCompete which takes takes one 8 element array of integers cells representing the current***

***state of 8 cells and one integer days representing the number of days to simulate. An integer value of 1 represents an active cell***

***and value of 0 represents an inactive cell.***

***Input Format***

***Input will have 8 array values and the no of days***

***Output Format***

***print the array***

***Constraints***

***array size is 8 integers***

***Sample Input :***

***1 0 0 0 0 1 0 0***

***1***

***Sample Output :***

***0 1 0 0 1 0 1 0***

#include<stdio.h>

int main()

{

int cell[8],k,i;

printf("enter no of days to compete\n");

scanf("%d",&k);

printf("enter the  state of 8 cells\n");

for(i=0;i<8;i++)

{

       scanf("%d",&cell[i]);

}

cellcompete(cell,k);

return 0;

}

int cellcompete(int \*cell,int k)

{

int i=0,n=8,j,l;

int temp[8];

for(j=1;j<=k;j++)

{

if(cell[i+1]==0)

{

temp[i]=0;

}

if(cell[i+1]==1)

{

temp[i]=1;

}

if(cell[n-2]==0)

{

temp[n-1]=0;

}

if(cell[n-2]==1)

{

temp[n-1]=1;

}

for(l=0;l<8;l++)

{

if((cell[l] ^ cell[l+2])==1)

{

temp[l+1]=1;

}

else

temp[l+1]=0;

}

for(l=0;l<8;l++)

{

             cell[l]=temp[l];

}

}

printf("the cells after %d days \n ",k);

for(i=0;i<8;i++)

{

       printf(" %d",temp[i]);

}

return 0;

}

//program for 2 dimensional array

#include<stdio.h>

int main()

{

int mat[4][3];

int i,j;

printf("enter the matrix values\n");

for(i=0;i<4;i++)

{

for(j=0;j<3;j++)

{

scanf(" %d",&mat[i][j]);

}

printf("\n");

}

for(i=0;i<4;i++)

{

for(j=0;j<3;j++)

{

printf(" %d",mat[i][j]);

}

printf("\n");

}

return 0;

}