CEL TO FAH CONVERTER

```
#include<stdio.h>
#include<conio.h>
main()
{
int ak;
int bk;
int i,j,c,f,ex;
int cel,fah,choose;
me:
top:
top2:
top1:
printf("\t\b1.Cel to Fah\n");
printf("\t\b2.Fah to Cel\n");
   printf("choose your option\n");
   scanf("%d",&choose);
   if(choose==1){

   printf("\n you are selected cel to fah\n");
   for(;;){

   printf("enter value of celcius \n");
   scanf("%d",&cel);
 if(cel==000){
    goto top;}

 printf("the converted value is\t%5f\n",(float)cel*9/5+32);
   }
   }
   else if(choose==2){
   printf("\n you are selected fah to cel\n");
   for(;;){
   printf("enter value of Fahrenheit \n");
   scanf("%d",&fah);
   if(fah==000){
    goto top2;}
   printf("the converted value is\n  %5f\n",(float)5*(fah-32)/9 );
   }
   }
   else if(choose==5){
   printf("\n you are just akash\n");
   printf("enter 1 for main\n");
  scanf("%d",&ak);
   if(ak==1)
  goto me;
    if(ak==2)
  goto end;

   }
   else{
   printf("\n wrong selection\n");
  printf("enter 1 for main and 0 for exit\n");
   scanf("%d",&bk);
   if(bk==1)
   goto top1;
   if(bk==0)
   goto end2;
   }
   end:
   end2:
   return 0;

}
```

ARITHEMATIC PROGRESS

```
#include<stdio.h>
#include<conio.h>
float an();
float ar();
float dt();
float nm();
int main()
{
int sel;
printf("1 for an\n");
printf("2 for a\n");
printf("3 for n\n");
printf("4 for d\n");
printf("select one of them\n");
scanf("%d",&sel);
if(sel==1){
printf("you selected for an\n");
an();
goto a;
}
else if(sel==2){
a:
printf("you selected for a\n");
ar();
goto b;
}
else if(sel==3){
b:
printf("you selected for n\n");
nm();
goto c;
}
else if(sel==4){
c:
printf("you selected for d\n");
dt();
goto d;
}
else{
printf("wrong selection");
}
d:
gotoxy(5,25);
printf("thanks for using this\n");

   return 0;
}

float an(){
float a, n, d, an;
printf("enter value of these\n");
printf("a=   ");
scanf("%f",&a);
printf("d=   ");
scanf("%f",&d);
```

```
printf("n=   ");
scanf("%f",&n);
an=(a+(n-1)*d);
printf(" your answer is\n an=  %f\n\n",an);

}
float ar(){
float a, n, d, an;
printf("enter value of these\n");
printf("an=   ");
scanf("%f",&an);
printf("d=   ");
scanf("%f",&d);
printf("n=   ");
scanf("%f",&n);

a=(an-(n-1)*d);
printf(" your answer is\n a=  %f\n\n",a);

}

float nm(){
float a, n, d, an;
printf("enter value of these\n");
printf("an=   ");
scanf("%d",&an);
printf("a=   ");
scanf("%d",&a);
printf("d=   ");
scanf("%d",&d);

n=((an-a)/d)+1;
printf(" your answer is\n n=  %f\n\n",n);

}

float dt(){
float a, n, d, an;
printf("enter value of these\n");
printf("an=   ");
scanf("%f",&an);
printf("a=   ");
scanf("%f",&a);
printf("n=   ");
scanf("%f",&n);
d=((an-a)/(n-1));
printf(" your answer is\n d=  %f\n\n",d);

}
```

Star Pattern program

```
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
#include<string.h>
char ch;
int it();
int dt();

int main()
{
   char name[20];
   int sel;
   printf("register your name\n");
   printf("name:  ");
   gets(name);
   printf("welcome %s in our program\n\n",name);

   top:
   printf(" press 1 for increment star pattern\n");
   printf(" press 2 for decreament star pattern \n\n");
   printf("choose one of them option\n");
  //  scanf("%d", &sel);
   printf("\n");
   if(getch()=='1'){
   system("cls");
   printf("dear %s you are selected increament star\n",name);
      it();
     }
  else  if(getch()=='2'){
system("cls");
printf("dear %s you are selected decreament star\n",name);
      dt();
     }
      else{
      system("cls");
      printf("oops %s bro wrong selection!\n\ttry again\n",name);
      goto top;
       }
   return 0;
}

it() {
   int n;
   printf("choose your character\n");
   scanf("%c", &ch);
   printf("how many turn you want to print star\n");
   scanf("%d", &n);
   for(int i=1; i<=n; i++) {
      printf("\n");
      for(int j=0; j<=(i-1); j++) {
         printf("%c",ch);
      }
   }
}
dt() {
```

```
int n;
 printf("choose your character\n");
    scanf("%c", &ch);
    printf("how many turn you want to print star\n");
    scanf("%d", &n);
    for(int i=n; i>=1; i--) {
        printf("\n");
        for(int j=(i-1); j>=0; j--) {
            printf("%c",ch);
        }
    }
}
```

MULTIPLICATION TABLE

```
#include<stdio.h>
#include<conio.h>
int main()
{
   int i, a,j, b;
   int d;

   system("clear");
  // printf("enter delay second\n");
 //  scanf("%d", &d);
   top:
   printf("enter the first number\n");
   scanf("%d",&a);


   printf("enter the last number\n");
   scanf("%d", &b);
   for(i=a;i<=b;i++){
   printf("\n\n");
   printf("the table of %d is\n", i);
//    sleep(1);
   for(j=1; j<=10; j++)

   printf("\t%d * %d = %d\n", i,j, i*j);

  sleep(2);

   }
   goto top;
   return 0;
}
```

RECURSIVE FUNCTION

```
/*made by akash */

#include <stdio.h>

int factorial(int number)
{

   if (number == 1 || number == 0)
   {
      return 1;
   }
   else
   {
      return (number * factorial(number - 1));
   }
}

int main()
{
   int num;
   printf("Enter the number you want the factorial of\n");
   scanf("%d", &num);
   printf("The factorial of %d is %d\n", num, factorial(num));

   return 0;
}
```