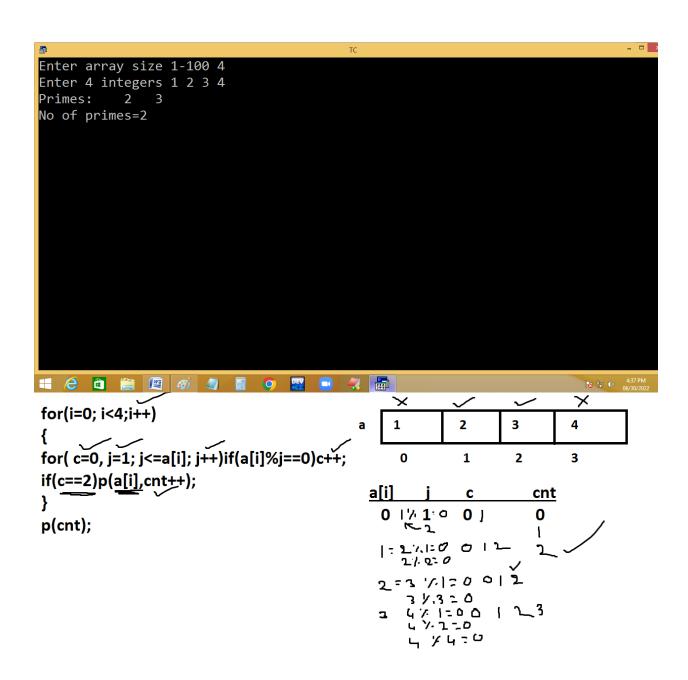
Eg. finding primes in give array and count.

```
File Edit Run Compile Project Options Debug Break/watch
               Col 40 Insert Indent Tab Fill Unindent * C:NONAME.C
     Line 14
#include<stdio.h>
#include<conio.h>
void main()
int a[100], n, i, j,c,cnt=0;
clrscr();
printf("Enter array size 1-100 ");scanf("%d",&n);
printf("Enter %d integers ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);</pre>
printf("Primes: ");
for(i=0;i<n;i++)
for(c=0,j=1;j<=a[i];j++)if(a[i]%j==0)c++;
if(c==2)printf("%4d",a[i],cnt++);
printf("\nNo of primes=%d",cnt);
getch();
4:36 PM
```



Eg. Finding stu result using array.

```
File Edit Run Compile Project Options Debug Break/watch
               Col 21 Insert Indent Tab Fill Unindent * C:NONAME.C
     Line 11
#include<stdio.h>
#include<conio.h>
void main()
int id, sub[6], i, pass=1,tot=0;
char name[20]; float avg;
clrscr();
printf("Enter stu id, name ");scanf("%d %s",&id,name);
printf("Enter 6 sub marks ");
for(i=0;i<6;i++)
{scanf("%d",&sub[i]);tot+=sub[i];if(sub[i]<35)pass=0; }</pre>
printf("%s tot=%d, avg=%.2f and result=%s",name,tot,avg,pass?"Pass":"Fail");
getch();
Enter stu id, name 1 krish
Enter 6 sub marks 99 90 89 98 99 90
krish tot=565, avg=94.17 and result=Pass_
₩ ₩ 4:43 PM
06/30/2022
```

```
Enter stu id, name 2 vinay
Enter 6 sub marks 20 43 25 45 60 44
vinay tot=237, avg=39.50 and result=Fail_
```

Preparing students marks memo:

```
#include<stdio.h>
#include<conio.h>

void main()
{

int id, sub[6], i, pass=1,tot=0;

char name[20],gender[10],dob[20],fname[20],mname[20], subj[6][10]={"Tel",
    "Eng","Hin","Mat","Sci","Soc"}; float avg;

clrscr();

printf("Enter stu id, name ");scanf("%d %s",&id,name);

printf("Enter gender ");scanf("%s",gender);

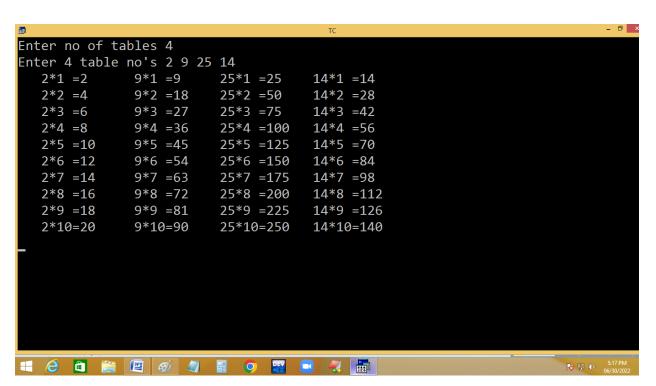
printf("Enter date of birth"); scanf("%s",dob);
```

```
printf("Enter father name "); scanf("%s",fname);
printf("Enter mother name ");scanf("%s",mname);
printf("Enter 6 sub marks ");
for(i=0;i<6;i++)
{scanf("%d",&sub[i]);tot+=sub[i];if(sub[i]<35)pass=0; }
avg=tot/6.0;
puts("\t\t BOARD OF SECONDARY EDUCATION");
puts("\t\t\ ANDHRA PRADESH");
********");
printf("id: %d\tName: %s\n",id,name);
printf("Gender: %s\t Dob: %s\n",gender,dob);
printf("Father: %s\t Mother: %s\n",fname,mname);
********");
puts("Sub\tMarks\t Pass/Fail");
********");
for(i=0;i<6;i++)
{
printf("%s\t%d \t %s\n",subj[i],sub[i]>=35?"P":"F");
}
```

```
********");
printf("%s tot=%d, avg=%.2f and result=%s",name,tot,avg,pass?"Pass":"Fail");
getch();
}
                                                      _ 🗇 ×
Enter stu id, name 102 sushma
Enter gender female
Enter date of birth22-5-2004
Enter father name subbarao
Enter mother name sarojini
Enter 6 sub marks 99 89 87 90 89 99
            BOARD OF SECONDARY EDUCATION
                    ANDHRA PRADESH
id: 102 Name: sushma
Gender: female Dob: 22-5-2004
Father: subbarao
                  Mother: sarojini
**********************
            Pass/Fail
Sub
      Marks
***************************
Tel
      99
            Ρ
            Р
      89
Eng
Hin
      87
            Ρ
      90
            Ρ
Mat
Sci
      89
            Ρ
Soc
      99
sushma tot=553, avg=92.17 and result=Pass
5:02 PM
```

Printing n different tables side by side:

```
- 🗇 ×
       Edit Run Compile
  File
                             Project
                                      Options Debug Break/watch
     Line 10
               Col 27 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[10],n,i,j; clrscr();
printf("Enter no of tables ");scanf("%d",&n);
printf("Enter %d table no's ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);</pre>
for(i=1;i<=10;i++)
for(j=0;j<n;j++)printf("%4d*%-2d=%-4d",a[j],i,a[j]*i);
printf("\n");
getch();
5:17 PM
```

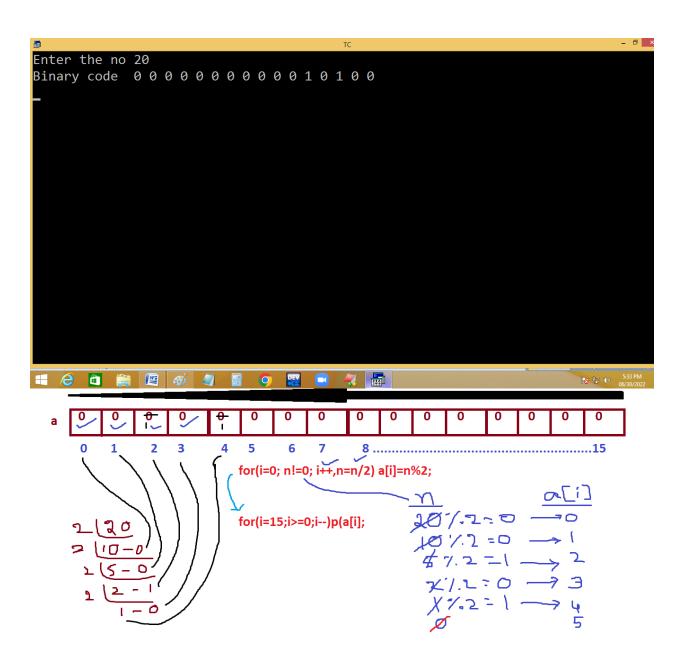


```
13
                                                   10
                                                             25
                                                                              45
for(i=1;i<=10;i++)
{
                                                    0
                                                              1
                                                                      2
                                                                              3
for(j=0;j<4;j++)
                                   a[ j ]
                                   0,1,2,3,4 -->
                                                   10*1=10 25*1=25 13*1=13
                                                                                  45*1=45
p("a[j] * i \t ");
                                                   10*2=20 25*2=50...
                                   0,1
p{"\n");
                                                   10
```

Decimal to binary conversion:

Eg: 20→ 0000 0000 0001 0100

```
File Edit Run Compile Project
                                      Options Debug Break/watch
     Line 10
               Col 18 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[16]={0},n,i; clrscr();
printf("Enter the no ");scanf("%d",&n);
for(i=0;n!=0;i++,n=n/2)a[i]=n%2;
printf("Binary code ");
for(i=15;i>=0;i--)printf("%2d",a[i]);
printf("\n");
getch();
5:33 PM
06/30/2022
```



eg. decimal to octal:

```
File Edit Run Compile Project Options Debug Break/watch
    Line 8
             Col 14 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
int a[16]={0},n,i; clrscr();
printf("Enter the no ");scanf("%d",&n);
for(i=0;n!=0;i++,n=n/8)a[i]=n%8;
printf("Octal code ");
for(i=15;i>=0;i--)printf("%2d",a[i]);
printf("\n");
getch();
5:35 PM
06/30/2022
Enter the no 20
```

Decimal to hexadecimal:

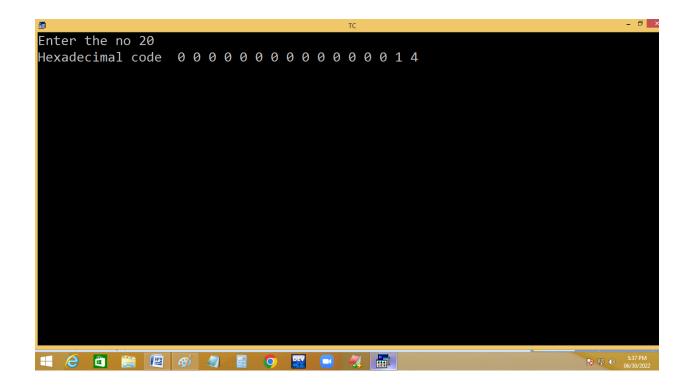


```
File Edit Run Compile Project Options Debug Break/watch

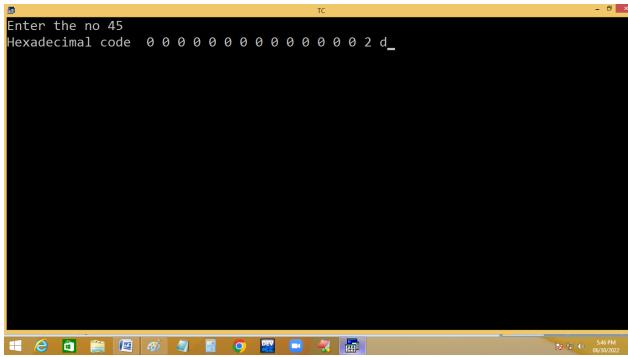
Line 8 Col 20 Insert Indent Tab Fill Unindent * C:NONAME.C

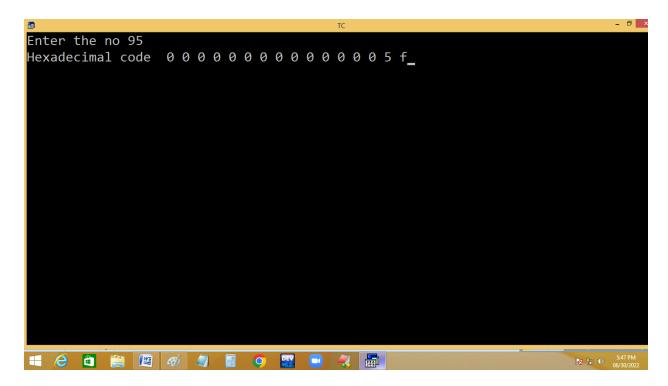
#include<stdio.h>
#include<conio.h>
void main()
{

int a[16]={0},n,i; clrscr();
printf("Enter the no ");scanf("%d",&n);
for(i=0;n!=0;i++,n=n/16)a[i]=n%16;
printf("Hexadecimal_code ");
for(i=15;i>=0;i--)printf("%2d",a[i]);
printf("\n");
getch();
}
```



```
_ 🗇 ×
File Edit Run Compile Project Options Debug Break/watch
    Line 12
            Col 2
                  Insert Indent Tab Fill Unindent * C:NONAME.C
#include<conio.h>
void main()
int a[16]={0},n,i; clrscr();
printf("Enter the no ");scanf("%d",&n);
for(i=0;n!=0;i++,n=n/16)a[i]=n%16;
printf("Hexadecimal code ");
for(i=15;i>=0;i--)
getch();
5:46 PM
06/30/2022
```





Home work:

Eg. Arranging array elements in reverse order.