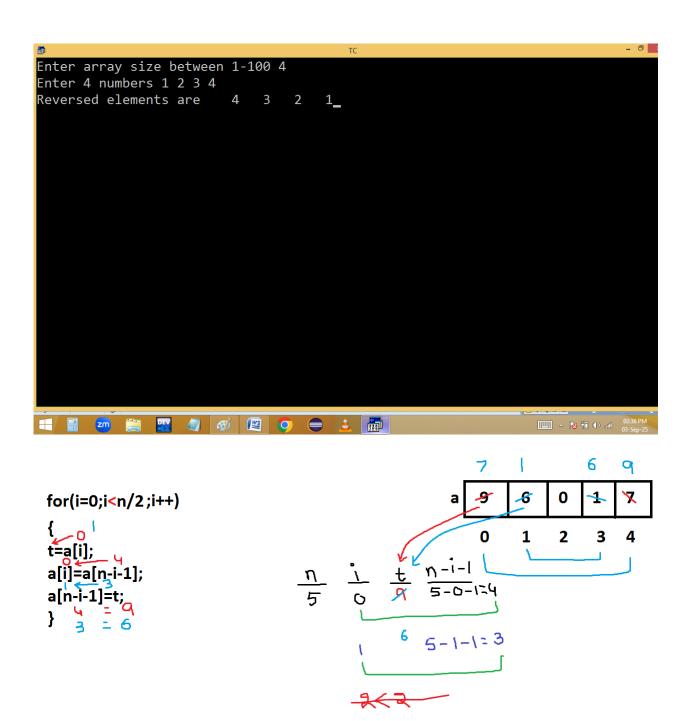
# Arrange array elements in reverse order permanently.

```
File Edit Run Compile Project
                                     Options Debug Break/watch
     Line 18
               Col 1 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int a[100],i,n,t;
clrscr();
printf("Enter array size between 1-100 ");scanf("%d",&n);
printf("Enter %d numbers ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<n/2;i++)
t=a[i]; a[i]=a[n-i-1]; a[n-i-1]=t;
printf("Reversed elements are ");for(i=0;i<n;i++)printf("%4d",i[a]);</pre>
getch();
```

```
Enter array size between 1-100 5
Enter 5 numbers 2 0 1 5 9
Reversed elements are 9 5 1 0 2
```

```
File Edit Run Compile Project Options Debug Break/watch
     Line 14
              Col 69 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int a[100],i,n,t;
clrscr();
printf("Enter array size between 1-100 ");scanf("%d",&n);
printf("Enter %d numbers ", n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
for(i=0;i<n/2;i++)
printf("Reversed elements are ");for(i=0;i<n;i++)printf("%4d",*(a+i));
getch();
△ 😼 🗓 (b) and 02:39 PM
```



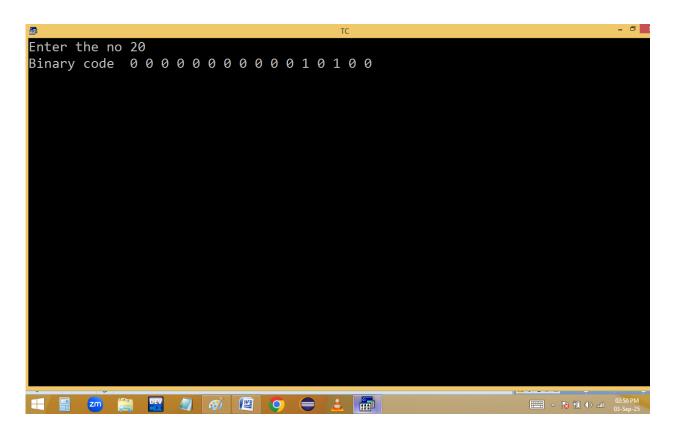


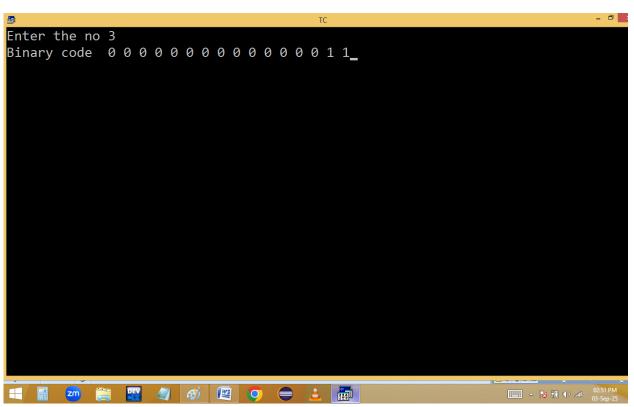
### 1. Decimal to binary conversion

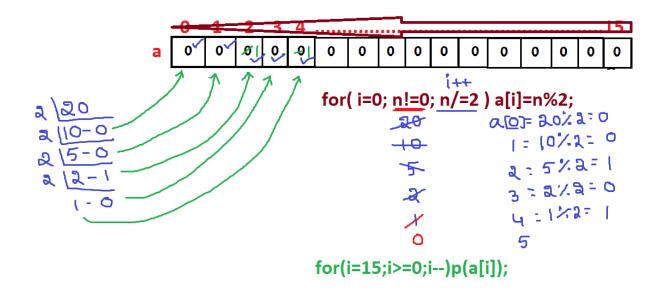
Eg: 20 ==> 0000 0000 0001 0100

```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 30 Insert Indent Tab Fill Unindent * E:2PM.C

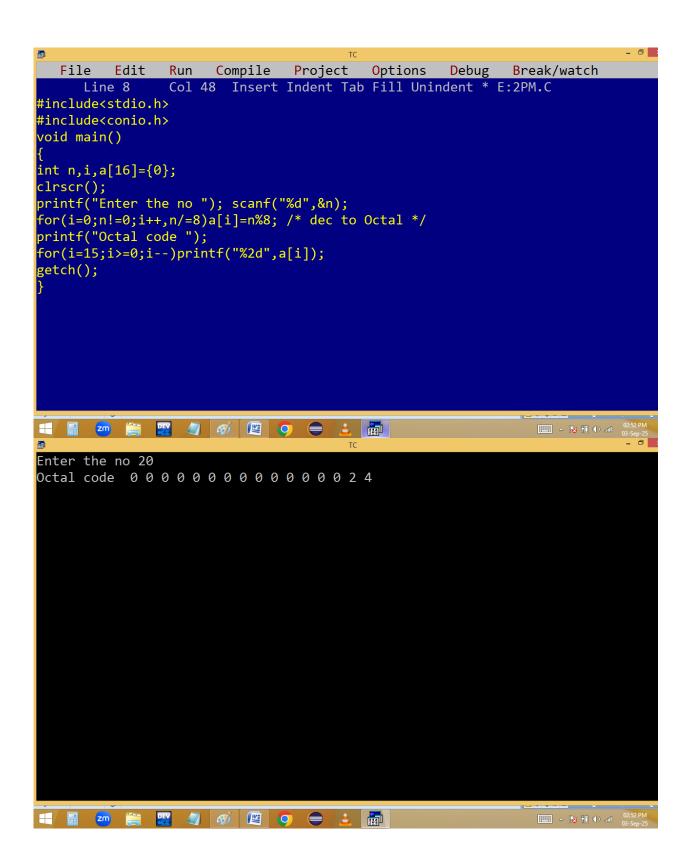
#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,a[16]={0};
clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=0;n!=0;i++,n/=2)a[i]=n%2; /* dec to binary */
printf("Binary code ");
for(i=15;i>=0;i--)printf("%2d",a[i]);
getch();
}
```

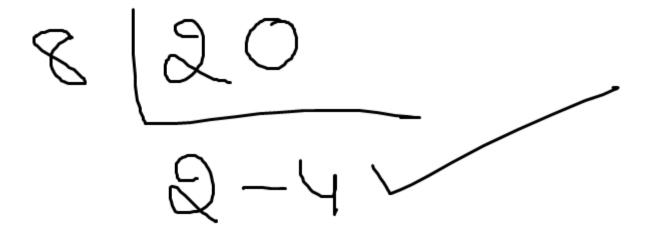






### decimal to octal:

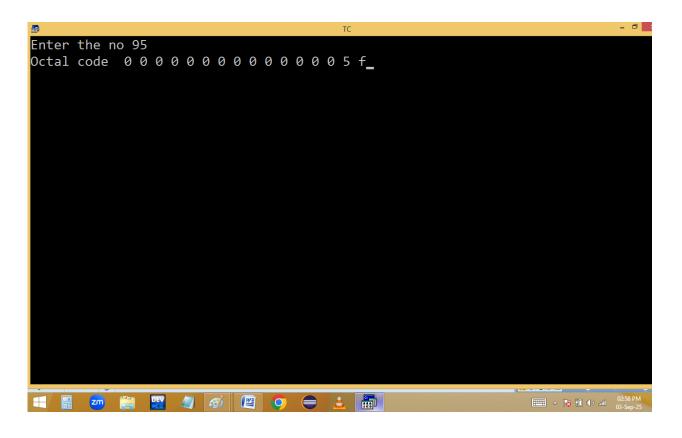


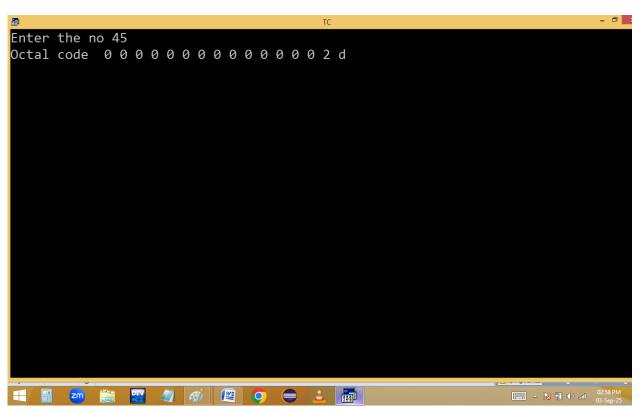


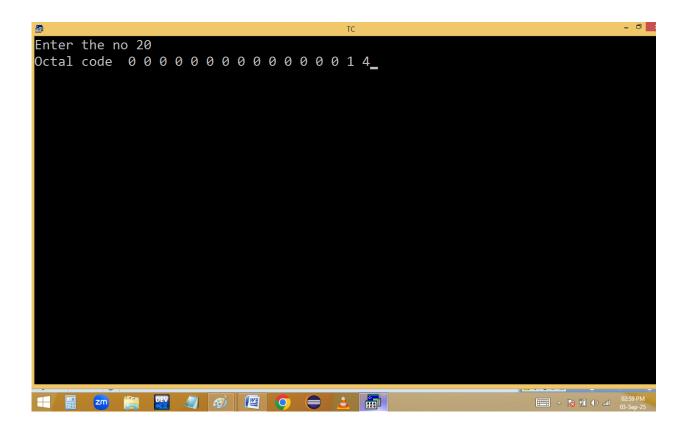
#### **Decimal to hexa:**

```
File Edit Run Compile Project Options Debug Break/watch
Line 10 Col 30 Insert Indent Tab Fill Unindent * E:2PM.C

#include<stdio.h>
#include<conio.h>
void main()
{
int n,i,a[16]={0};
clrscr();
printf("Enter the no "); scanf("%d",&n);
for(i=0;n!=0;i++,n/=16)a[i]=n%16; /* dec to hexa*/
printf("Octal code ");
for(i=15;i>=0;i--)if(a[i]<10)printf("%2d",a[i]); else printf("%2c",87+a[i]);
getch();
}
```



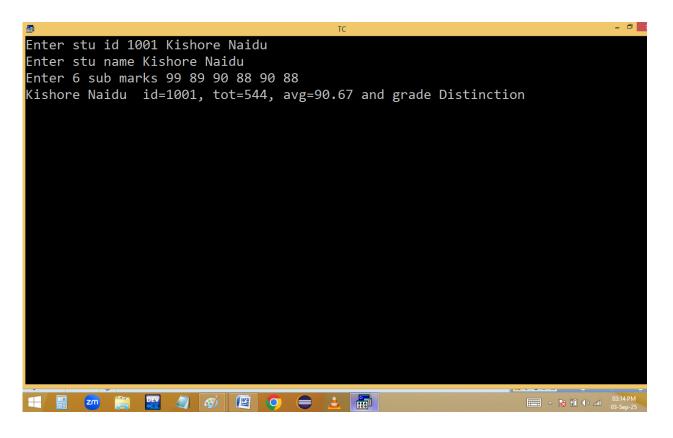


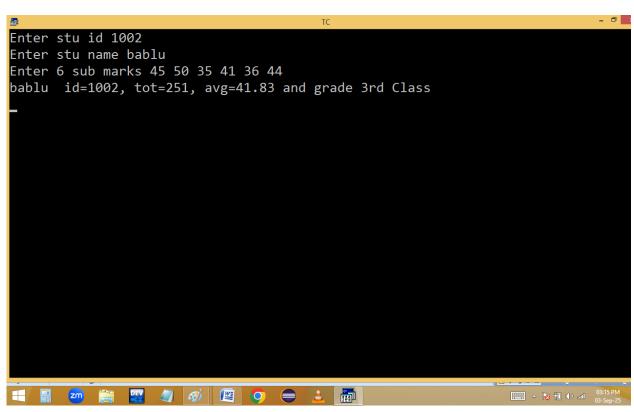


## Read a stu id, name, 6 sub marks using array. Find total, average and grade using below table.

| Avg  | Grade                 |
|------|-----------------------|
| >=80 | Distinction           |
| >=60 | 1 <sup>st</sup> class |
| >=50 | 2 <sup>nd</sup> class |
| >=35 | 3 <sup>rd</sup> class |
| <35  | Fail                  |

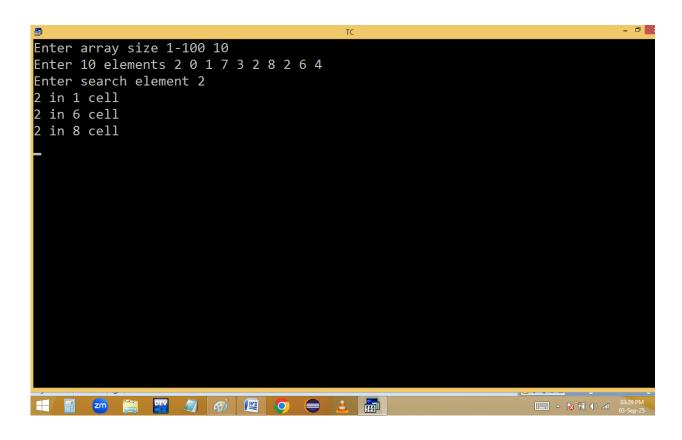
```
Options
                                                   Debug
  File Edit
                Run Compile
                               Project
                                                           Break/watch
                Col 47 Insert Indent Tab Fill Unindent * E:2PM.C
     Line 4
#include<stdio.h>
#include<conio.h>
void main()
{int id,sub[6],tot=0, i,pass=1;char name[30];float avg;
clrscr();
printf("Enter stu id "); scanf("%d",&id);
flushall();
printf("Enter stu name "); gets(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;}
avg=tot/6.0;
printf("%s id=%d, tot=%d, avg=%.2f and grade ",name,id,tot,avg);
if(pass==0)puts("Failed");
else if(avg>=80)puts("Distinction");
else if(avg>=70)puts("1st Class");
else if(avg>=60)puts("2nd Class");
else puts("3rd Class");
getch();
```





## **Linear search**:

```
File Edit
               Run Compile Project Options Debug Break/watch
     Line 8
               Col 60 Insert Indent Tab Fill Unindent * E:2PM.C
#include<stdio.h>
#include<conio.h>
void main()
int a[100],n,i,e,f=0;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ",n);for(i=0;i<n;i++)scanf("%d",&a[i]);</pre>
printf("Enter search element "); scanf("%d",&e);
for(i=0;i<n;i++)
if(a[i]==e)printf("%d in %d cell\n",e,i+1,f=1);
if(f==0)printf("%d not found",e);
getch();
_____ △ 😼 🕆 → 03:28 F
```



```
for(i=0; i<5;i++)

{

if(a[i]==e)

{

if(sell\n",e,i+1,f=1);
}

if(f==0)p("ele not found");

a

2 | 7 | 10 | 4 | 1 |

0 1 2 3 4

f

2 | 7 | 10 | 4 | 1 |

0 1 2 3 4
```

#### **Selection sort:**

