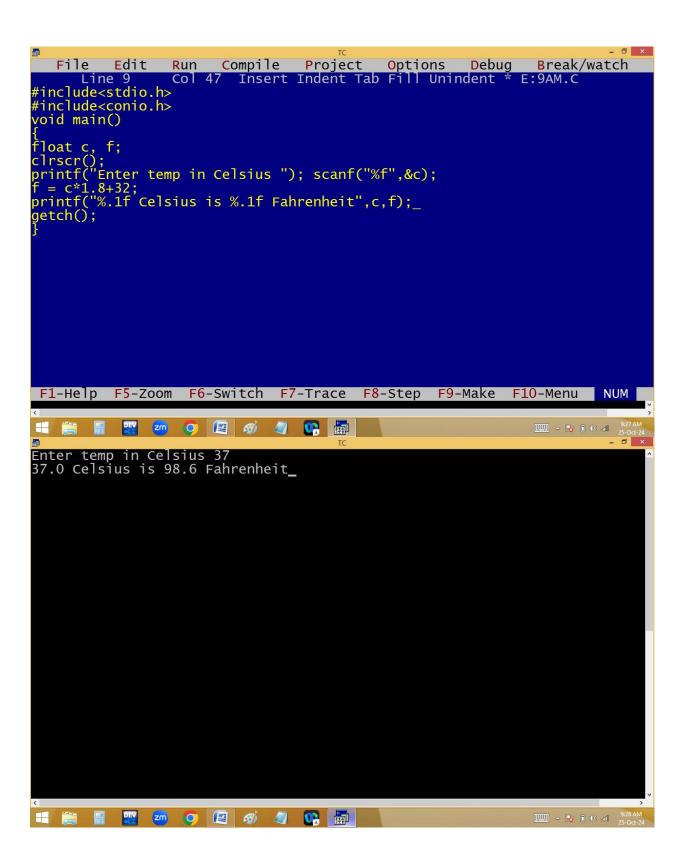
Celsius to Fahrenheit:

$$F = c * 1.8 + 32$$



```
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 33 Insert Indent Tab Fill Unindent * E:9AM.C

#include<sconio.h>
#include<conio.h>
#include<conio.h

#inclu
```

```
- 0 ×
Enter temp in Celsius 37
37.0° Celsius is 98.6° Fahrenheit
9:29 AM 25-Oct-24
Enter temp in Celsius 40
40.0° Celsius is 104.0° Fahrenheit_
```

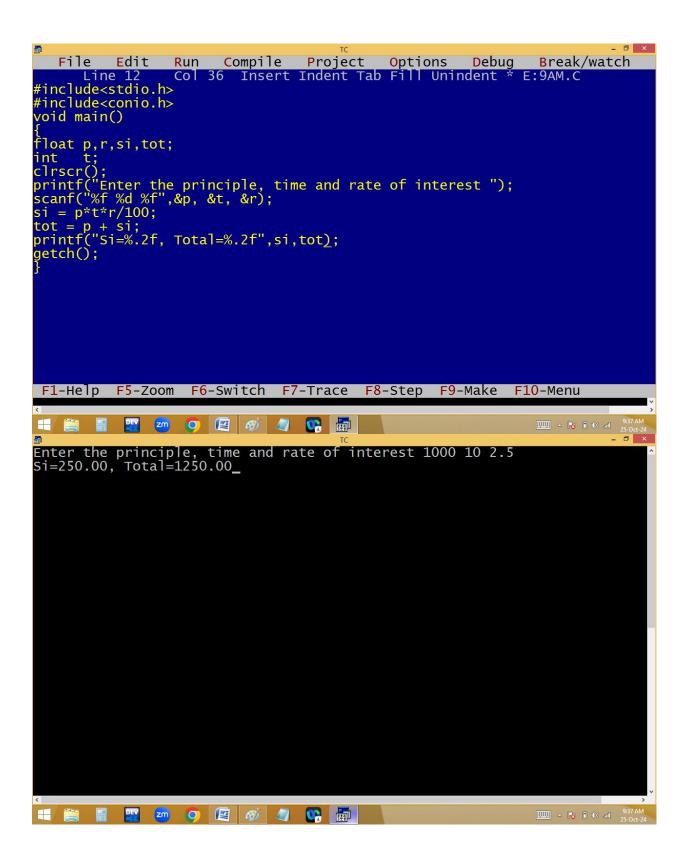
Fahrenheit to Celsius:

C = f-32*5/9

```
File Edit Run Compile Project Options Debug Break/watch
Line 8 Col 15 Insert Indent Tab Fill Unindent * E:9AM.C
Line 8 (
#include<stdio.h>
#include<conio.h>
void main()
float c, f;
clrscr();
printf("Enter temp in Fahrenheit "); scanf("%f",&f);
c = (f-32)*5/9;
printf("%.1f%c Fahrenheit is %.1f%c Celsius",f,248,c,248);
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu
             Enter temp in Fahrenheit 98.6
98.6° Fahrenheit is 37.0° Celsius
9:31 Al
```

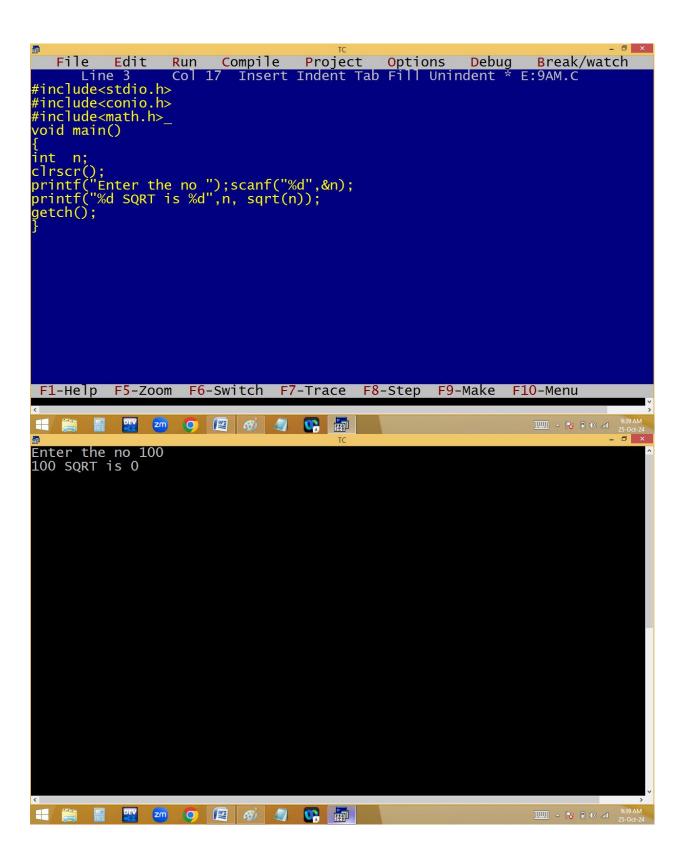
Finding simple interest:

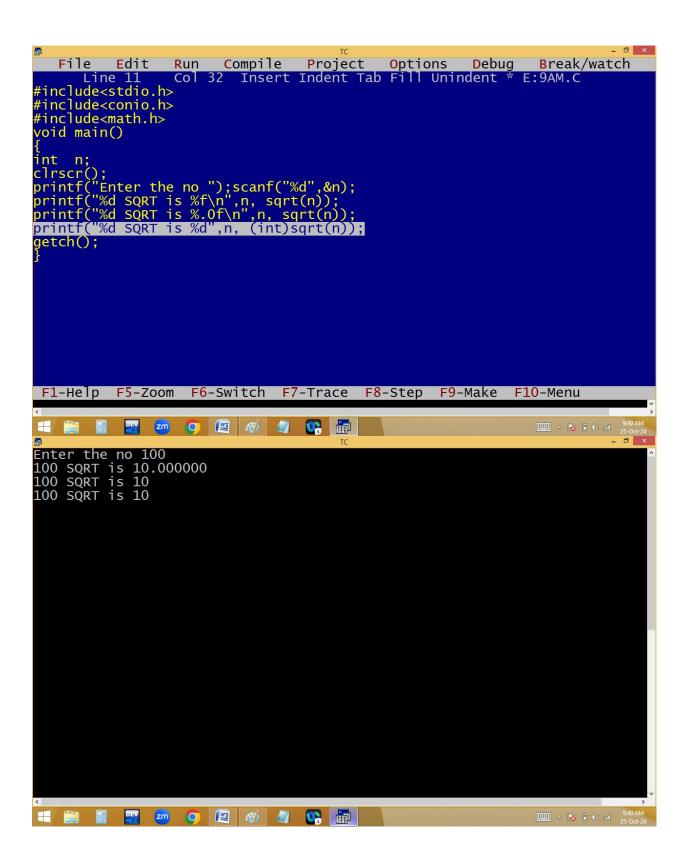
p*t*r/100



Finding sqrt of given no:

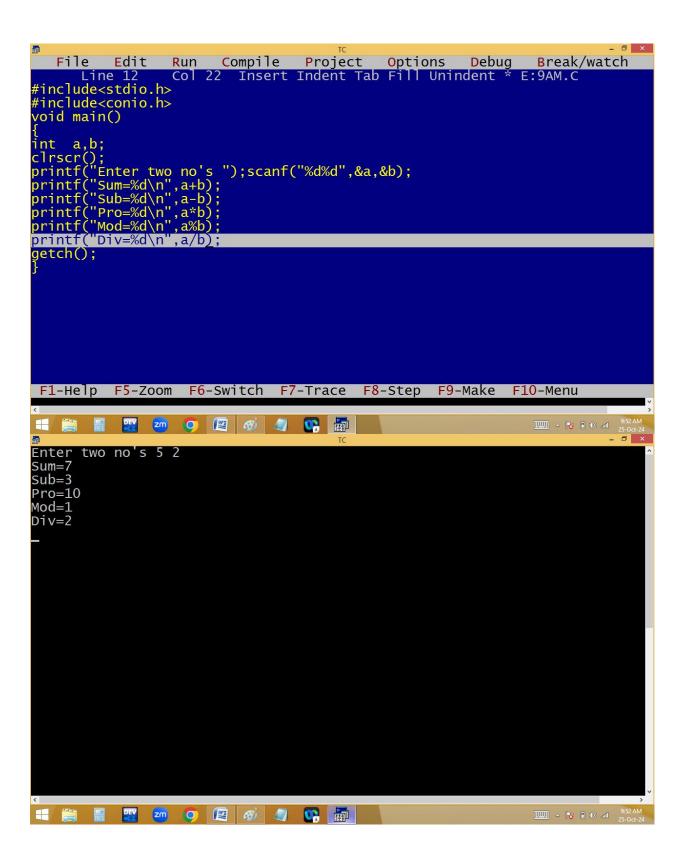
100 sqrt is 10

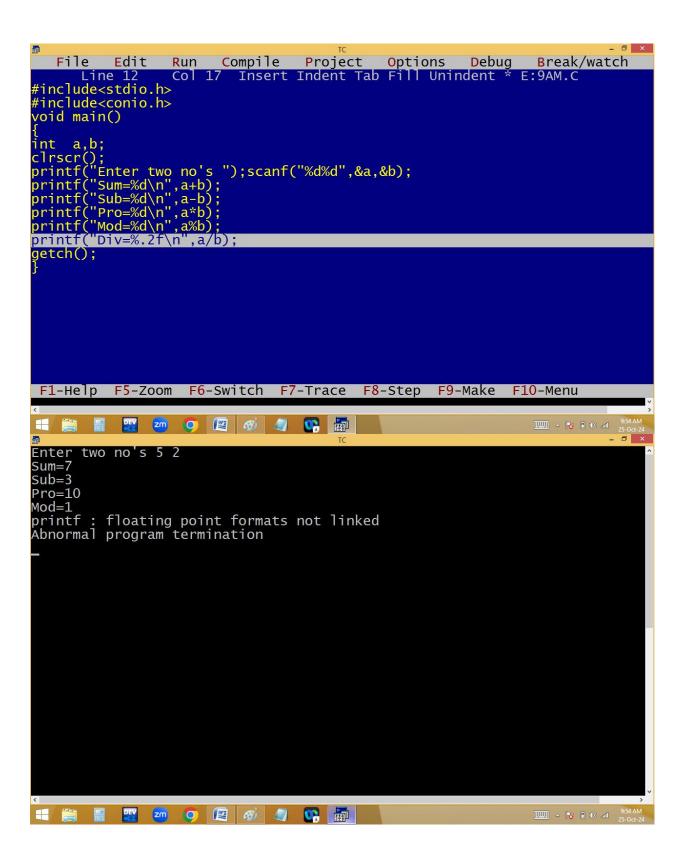


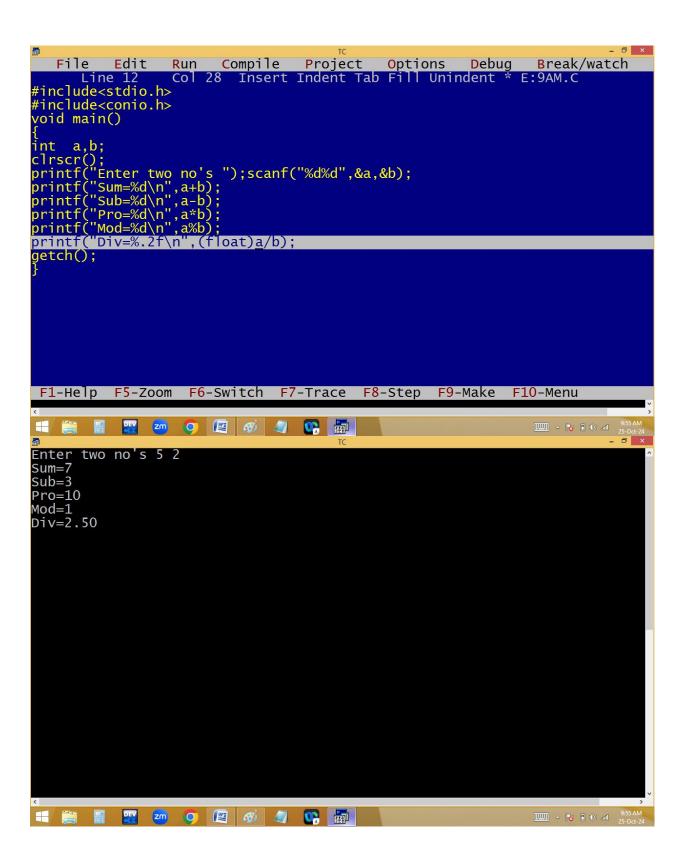


Read two numbers and perform all arithmetic operations

```
_ 0 ×
          Edit Run Compile Project Options Debug Break/watch ine 17 Col 12 Insert Indent Tab Fill Unindent * E:9AM.C
    File
Line 17 (
#include<stdio.h>
#include<conio.h>
yoid main()
int a,b,c,d,e,f,g;
clrscr();
printf("Enter two no's ");scanf("%d%d",&a,&b);
c=a+b;
d=a-b;
e=a*b;
f=a\%b;
g=a/b;
g=a/b;
printf("Sum=%d\n",c);
printf("Sub=%d\n",d);
printf("Pro=%d\n",e);
printf("Mod=%d\n",f);
printf("Div=%d\n",g);
getch();
 F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu
              Enter two no's 5 2
Sum=7
Sub=3
Pro=10
Mod=1
Div=2
```





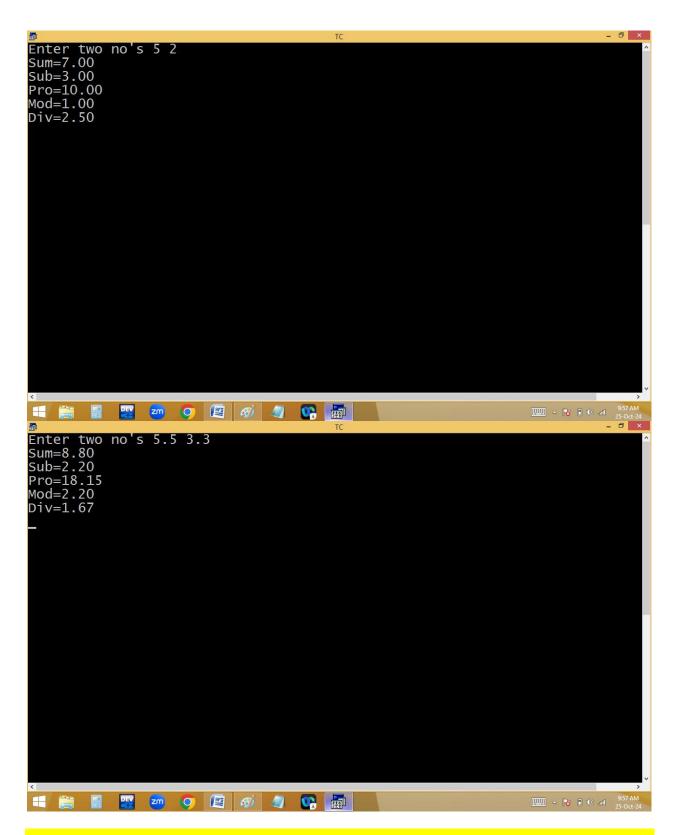


```
File Edit Run Compile Project Options Debug Break/watch

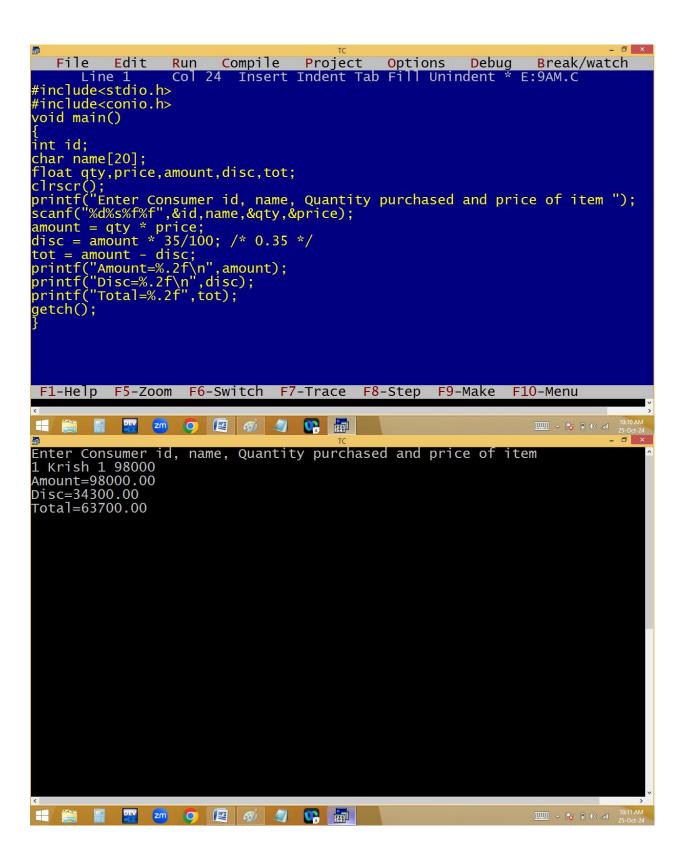
Line 13 Col 21 Insert Indent Tab Fill Unindent * E:9AM.C

#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
float a,b;
clrscr();
printf("Enter two no's ");scanf("%f%f",&a,&b);
printf("Sum=%.2f\n",a+b);
printf("Sub=%.2f\n",a-b);
printf("Pro=%.2f\n",a*b);
printf("Mod=%.2f\n",fmod(a,b));
printf("Div=%.2f\n",a/b);
getch();
}

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu
```



Read a customer id, name, Quantity purchased and rate of item. Find the amount, 35% discount and total.



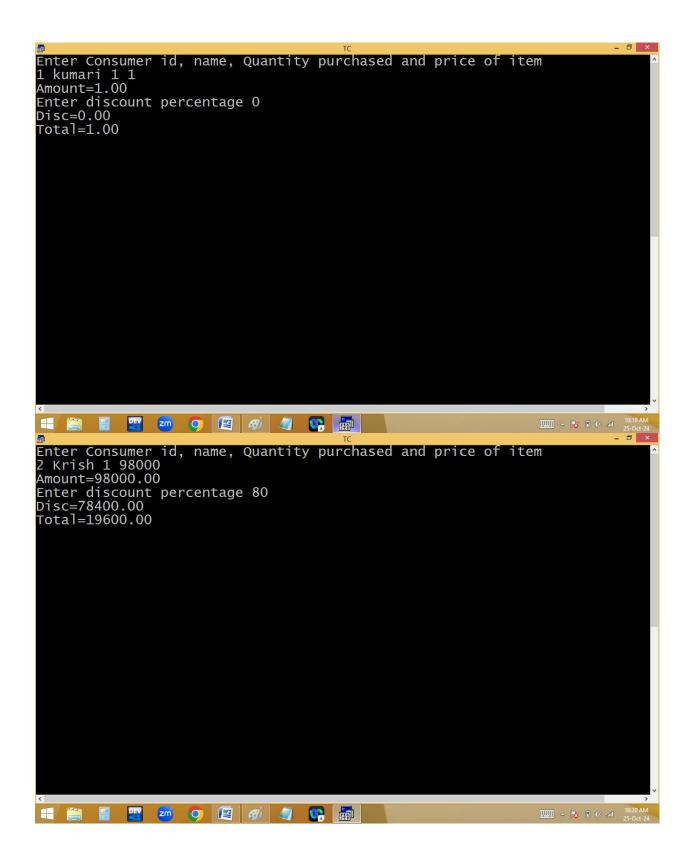
Dynamic discount [runtime]:

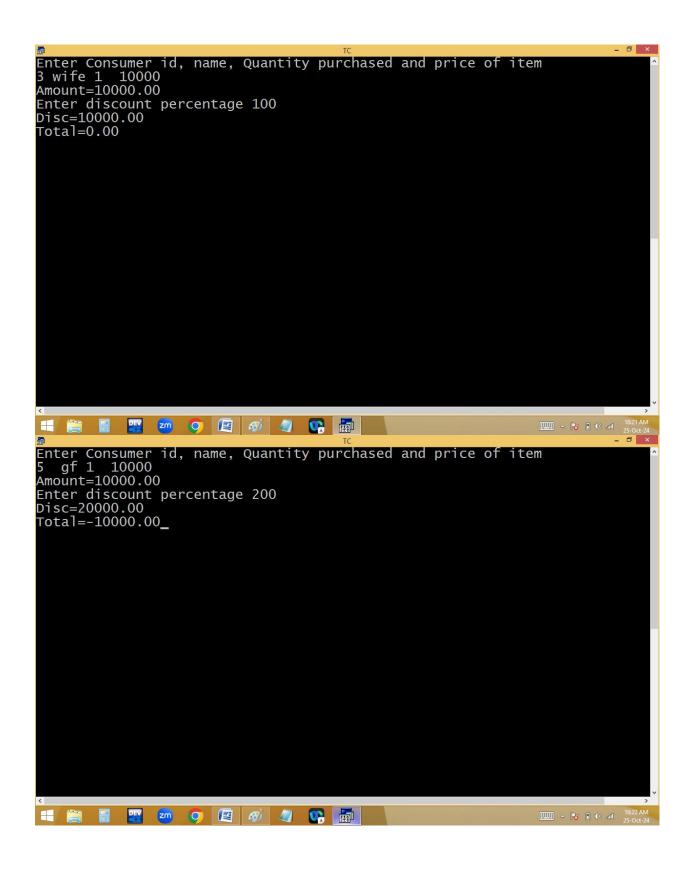
```
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Line 14 Col 27 Insert Indent Tab Fill Unindent * E:9AM.C

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

{
int id;
char name[20];
float qty,price,amount,disc,tot;
clrscr();
printf("Enter Consumer id, name, Quantity purchased and price of item ");
scanf("%d%s%fff",&id,name,&qty,&price);
amount = qty * price;
printf("Amount=%.2f\n",amount);
printf("Enter discount percentage "); scanf("%f",&disc);
disc = amount * disc/100;
tot = amount * disc/100;
tot = amount - disc;
printf("Disc=%.2f\n",disc);
printf("Total=%.2f",tot);
getch();
}

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu
```





Variables:

Variable is a container is used to store the values in our programs.

Variable is a named memory [bytes] where we can store and manipulate [modify] the values in our programs.

All the variables are stored in primary memory i.e. RAM Only. Due to this the variables are automatically deleted after the function / program execution. i.e. all the variables are temporary.

in c compiler we should have to declare the variables in first line of any function. In c++ we can declare anywhere.

Every variable is having 2 stages.

```
1. Variable declaration / declared Eg: int a;
```

2. Variable initialization / defined Eg: a=100;

Syntax:

```
Datatype variable[=value], var[=value],.....;
```

Eg:

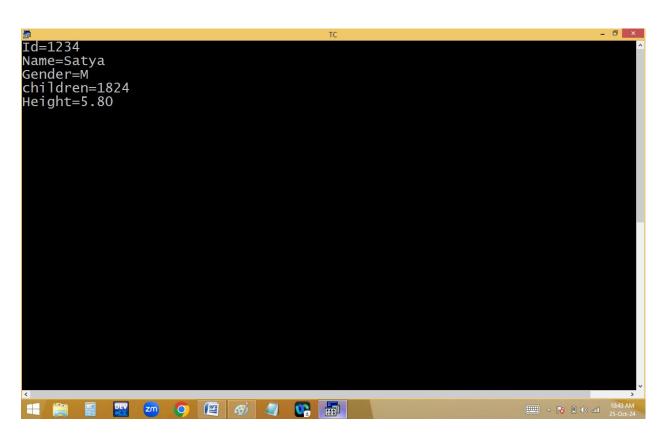
```
int id=1234, children;
char name[]="Satya", gender='M';
```

float height = 5.8;

```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 30 Insert Indent Tab Fill Unindent * E:9AM.C

#include<stdio.h>
#include<conio.h>
void main()
{
   int id=1234, children;
   char name[]="Satya", gender='M';
   float height=5.8;
   clrscr();
   printf("Id=%d\n",id);
   printf("Id=%d\n",id);
   printf("Gender=%c\n",gender);
   printf("Gender=%c\n",gender);
   printf("Height=%.2f",height);
   getch();
}

F1-Help F5-Zoom F6-Switch F7-Trace F8-Step F9-Make F10-Menu
```



Memory allocation for variables:

