if – else statement
switch statement
for statement
while statement
Simple if statement

if (<boolean expression>)
    statement1;
statement2;
statement3;
A store gives discount of 5% on purchase of 100 items or more. Calculate the total price, given ITEMS and PRICE.

```c
scanf( "%d %f", &ITEM, &PRICE);
If ( ITEMS >= 100)
    PRICE = 0.95 * PRICE
TOTAL = ITEMS * PRICE
```
Printing floating point values

float priceA, priceB;
printf("Please enter the prices of A and B:");

scanf("%f %f", &priceA, &priceB);

if (priceA > priceB)
    {printf("\n item A costlier");
     printf("A costs Rs. %f . ", priceA);
    }
else
    printf("\n item A NOT costlier.");
**Exercise:**
Compute income tax for a person as per following table:

<table>
<thead>
<tr>
<th>Income Range</th>
<th>Tax Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>income &lt; 1,00,000</td>
<td>no tax</td>
</tr>
<tr>
<td>income between 1,00,000 and 3,00,000</td>
<td>10% of income</td>
</tr>
<tr>
<td>income between 3,00,000 and 8,00,000</td>
<td>20% of income</td>
</tr>
<tr>
<td>income above 8,00,000</td>
<td>30% of income</td>
</tr>
</tbody>
</table>
int marks;
scanf(" %d ", &marks);
switch (marks)
{
    case 10: printf(" grade = 'A' ");
        break;
    case 9: 
    case 8: printf(" grade = 'B' ");
        break;
    case 7: printf(" grade = 'C' ");
        break;
    case 6: printf(" grade = 'D' ");
        break;
    default: printf(" grade = 'F' ");
}
The real power of computers is in their ability to repeat an operation or a series of operations many times.

This repetition, called looping, is one of the basic structured programming concepts.

The looping can be done for a fixed number of times, 
for loop
or dependent on satisfaction of some condition 
while loop.