JUMP CONTROL STATEMENTS =>

* break * exit() * continue * goto

1. break :- We use this statement in switch or loop, whenever the statement is executed control comes out of the loop [OR] switch

```
main()
{ int i;
  for(i=1; i<=10; i++)
  { if (i==5)
      break;
      printf("%d", i);
  }
  printf("out of loop");
}
```

o/p :-

1 2 3 4 out of loop

2. exit() :- whenever state is executed control goes to end of the program.

```
main()
{ int i;
  for(i=1; i<=10; i++)
  { if (i==5)
      exit();
      printf("%d", i);
  }
  printf("out of loop");
}
```

o/p :-

1 2 3 4

3. Continue;-

* We use this statement only in loop
* Whenever this statement is executed control goes to breach.

```
main ( )
{ int i;
  for (i=1; i<=10; i++)
  { if (i==5)
      continue;
    printf ("%d", i);
  }
  printf ("out of loop");
}
```

O/P:-

1 2 3 4 5 6 7 8 9 10
out of loop

Ex:-

```
main ( )
{ int i;
  for (i=65; i<=122; i++)
  { if (i>90 && i<97)
      continue;
    printf ("%c", i);
  }
}
```

O/P:-

A B C ... Z a b c ... z

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STRONG NUMBER =>

145 :-

1! + 4! + 5!

= 1 + 24 + 120 = 145

```
-> main ()
{
  int m, n, sum = 0
  printf ("enter n");
  scanf ("%d", &n);
  for while (n!=0)
    {
      m = n % 10;
  while (n!=0)
  {
    m = n % 10;
    s = s + m;
    n = n / 10;
    i = 1
    while (i <= n)
    {
      f = f * i;
      i++;
    }
    sum = sum + m;
    n = n / 10;
  }
  if (s == x)
  printf ("strong");
  else
  printf ("not a strong");
}
```

f =

1!
4!
5!

```
while (n!=0)
  14|5
  Factorial
  while (i<=n)
  {
    f = f * i;
    i++;
  }
```

Sum of n-integers

for - loop

```
for (i=1; i<=n; i++)
```

```
sum = sum + f;
n = n / 10;
```

```
⇒ main()
{
  int n, m, s=0, i, f, x;
  printf("enter n");
  scanf("%d", &n);
  x=n;
  while(n!=0)
  {
    m=n%10;
    for(f=1; i=1; i<=m; i++)
    f=f*i;
    s=s+f;
    n=n/10;
  }
  if(x==s)
  printf("strong");
  else
  printf("Not a strong number");
}
```