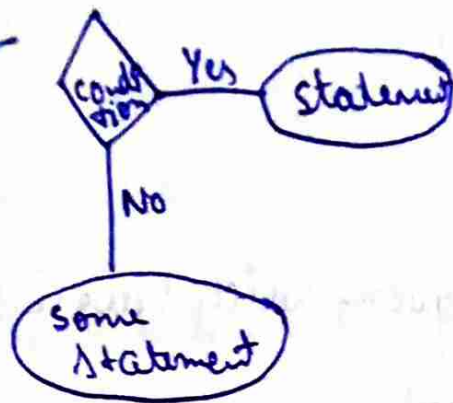


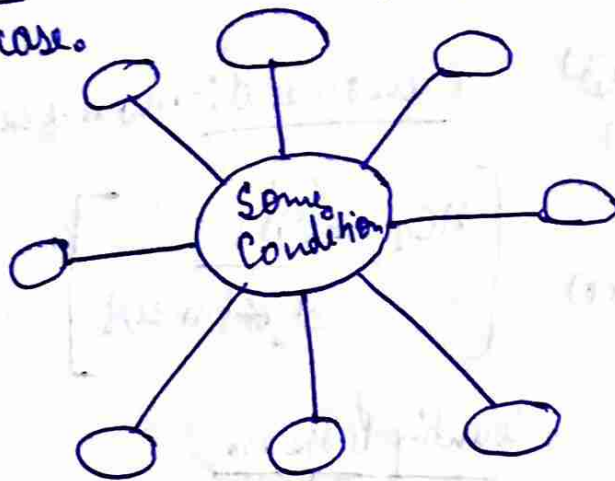
Lecture:-8

Switch Statements & Functions

if Statement:-



Switch Case:- There are multiple options or alternatives to do in switch case.



switch (expression)

```
{  
  case const1:  
    ~~~~~  
    break;  
  case const2:  
    ~~~~~  
    break;  
  default:  
    ~~~~~  
}
```

→ integers / character

continue:- To skip iteration.

use of continue keyword in switch is not valid.

Mini calculator program

i/p \rightarrow $x, y, \text{operation}$
 $\downarrow \quad \downarrow \quad \downarrow$
 $3 \quad 4 \quad *, /, +, -, \%$

o/p $\rightarrow 3 * 4 \rightarrow 12$

Functions :- It is a program which have well defined task.



low(a,b) \rightarrow ~~low(a,b)~~

```
int power(int a, int b)
{
    int ans = 1;
    for(int i = 0; i < b; i++)
    {
        ans = ans * a;
    }
    return ans;
}
```

```
int main()
```

```
{
```

```
    int a, b;
```

```
    cin >> a >> b;
```

```
    int ans = power(a, b);
```

```
    cout << ans << endl;
```

```
    return 0;
```

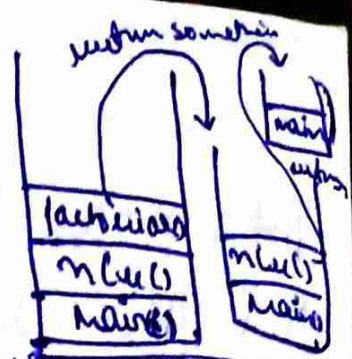
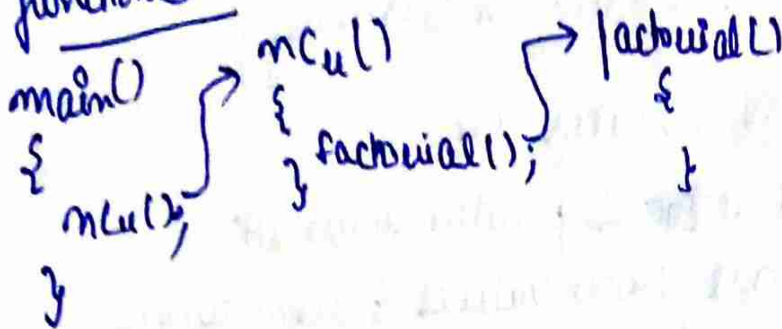
```
}
```

Even or odd :- no even or odd.

$$\left[nC_r = \frac{n!}{r! * (n-r)!} \right]$$

Counting program

function stack:-

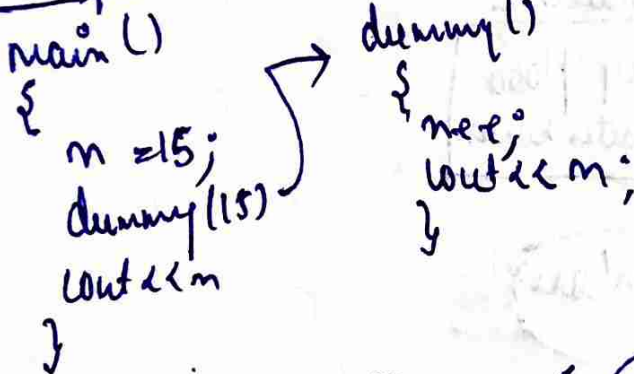


(function call stack)

Means shaddi
ke plates.

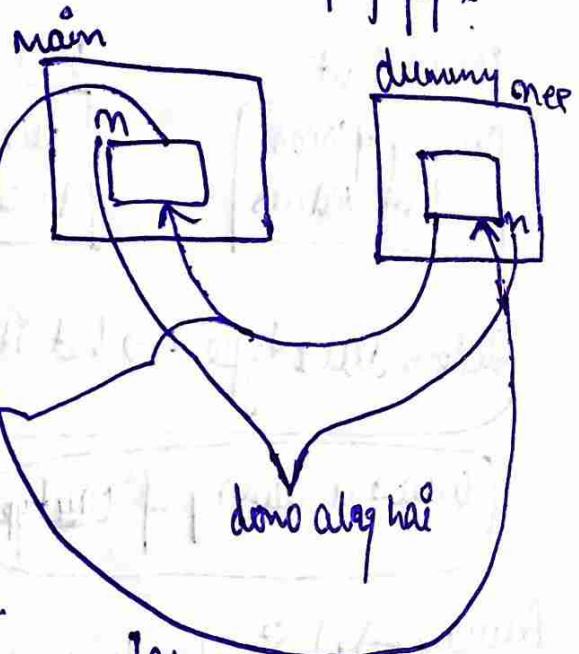
(means Ji sabse phale
Rakha gaya tha vo
plate ~~uske~~ uske jar mi
uthaya jayega).

Pass by Value:-



Jab ye vapas ayege and
mei main mei check karne
ka try karunga to yei 15 hi nahi hoga.

(when main gives n to dummy it
create a copy of n).



Jab ye Pass hokha hai
dummy function Ji Anden
Sovha Ji new n
ban rha hai. name
same hai but storage
same nahi hai.