```
Day-2 JA111 Batch
function calculatefactorial(var n){
        var result = 1;
        for(int i = 1 ; i = n; i++)
                result = result  i;
        return result;
}


        this is a function to calculate facrial of a number and return
        parameter n the integer value whise factorial is to compute

function calculatefactorial(var n){
        create a variable to hold factorial of number n
        var result = 1;
        logic to find factorial
        for(int i = 1 ; i = n; i++)
                result = result  i;
        return the result
        return result;
}
primary & secondary memory
the memory that is accessible to the CPU is called primary memory
primary memory can be voaltile as well as non valotile
e.g. RAM, ROM
the memory that is not accessible by the CPU is called secondary memory
secondary memory is always non-volatile.
4 GB RAM = 4 x 1024 MB = 4 x 1024 x 1024 KB = 4 x 1024 x 1024 x 1024 Bytes = 2^32 bytes
A variable is a named memory location whose value can be changed.
9gold [invalid]
abc [valid]
principleAmount [best case]
byte b = 10;     primitive
Byte b = 10;WRAPPER;
type conversion and casting
byte b = 10;
int i = b;       widenining conversion, automatic conversion
int a = 100;
byte c = a;      Error
byte c = (byte)a;       Narrowing conversion, explicit conversion
float f = 1.5f;
int i = f;       Error
int i = (int)f; Narrowing conversion, Truncation
System.out.println(f + â€  â€  + i);    1.5 1
int a = 10 + 20;        Experession
operands 3, 10,20 are operands for +, 30 & a are operands for =
operators 2. + and =
int a = 10;
int b = -a;      unary as well as binary
float a = 2 + 3  5;
float a = 17;
float b = 2  3  5;
float b = (2  3)  5;
float b = 0;
byte b = 10;
System.out.println(10  5  2);   Error
10  5  2
(10  5)  2
false  2
10  5 && 5  2
int i = 0;
boolean b = ++i == 0 && ++i == 2;
System.out.println(b + â€  â€  + i);    false 1
i = 0;
b = ++i == 0 & ++i == 2;
```

```
System.out.println(b + â€  â€  + i);      false 2
i = 0;
b = ++i == 1  ++i == 2;
System.out.println(b + â€  â€  + i);      true 1
i = 0;
b = ++i == 1  ++i == 2;
System.out.println(b + â€  â€  + i);      true 2
expression-1 expression-2expression-3;
int no = some-value;
S.o.pln(no % 2 == 0â€œEvenâ€  â€œOddâ€ );
int age = some-value;
if(age = 18)
        S.o.pln(â€œAdultâ€ );
else
        S.o.pln(â€œMinorâ€ );
-----------------------
int division = some-value;
switch(division){
        case 1
                S.o.pln(â€œHurrayâ€ );
                break;
        case 2
                S.o.pln(â€œGoodâ€ );
                break;
        case 3
                S.o.pln(â€œGod saves meâ€ );
                break;
        default
                S.o.pln(â€œBLNTâ€ );
}
-----------------------
for(int i = 0; i  10; i++)
        System.out.print(i + â€  â€œ);
0 1 2 3 4 5 6 7 8 9
-----------------------
int i = 10;
do{
        System.out.print(i + â€  â€œ);
        i--;
}while(i = 0);
10 9 8 7 ....... 0
```