

Dt : 28/7/2023

define while loop?

=>In while looping structure the condition is checked first and if the condition is true then loop-body is executed, this process is repeated until the condition is false.

syntax:

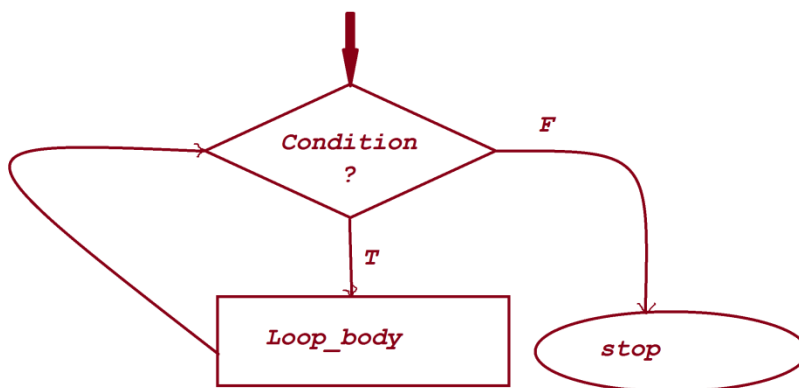
while(condition)

{

//loop_body

}

Flowchart:



Ex:

wap to display 1 to n numbers?

Program : DemoMethods6.java

import java.util.Scanner;

class DemoMethods6

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter the value of n(End-value):");

int n = s.nextInt();

if(n>0)

{

int i=1;

while(i<=n)

{

System.out.print(i+" ");

i++;

}

}

else

```

        {
            System.out.println("Invalid input ...");
        }
    }
}

```

o/p:

Enter the value of n(End-value):

20

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

=====

Assignment:(Solution)

wap to read Six sub marks of a Student and calculate "totMarks and Per"

program : StuMainClass.java

import java.util.Scanner;

class Percentage

{

float per(int totMarks)

{

float p = (float)totMarks/6;

return p;

}

}

class StuMainClass

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

int i=1,totMarks=0;

while(i<=6)

{

System.out.println("Enter marks of sub-"+i);

int sub = s.nextInt();

if(sub<0 || sub>100)

{

System.out.println("Invalid marks...");

continue;

}

totMarks=totMarks+sub;

i++;

}

System.out.println("TotalMarks:"+totMarks);

Percentage ob = new Percentage();

float pr = ob.per(totMarks);

System.out.println("Percentage:"+pr);

}

}

o/p:

Enter marks of sub-1

-12

Invalid marks...

Enter marks of sub-1

34

Enter marks of sub-2

160

Invalid marks...

Enter marks of sub-2

78

Enter marks of sub-3

78

Enter marks of sub-4

76

Enter marks of sub-5

77

Enter marks of sub-6

45

TotalMarks:388

Percentage:64.666664

=====

=====

Assignment:

Update above program by displaying result as follows:

pr=>

70 to 100 ==> Distiction

60 to <70 ==> FirstClass

50 to <60 ==> SecondClass

35 to <50 ==> ThirdClass

else ==> Fail

=====

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