**Question from class**

How many different rules are needed to assign 500 classes if there are 45 different time periods in the university time table are available?

**Program code**

#include<stdio.h>

int main()

{

int n,m,p;

printf("\nEnter number of classes:\n");

scanf("%d",&n);

printf("\nEnter number of time periods:\n");

scanf("%d",&m);

if(n>m)

{

p=((n-1)/m)+1;

}

else

{

printf("\nPigeon hole principle is not possible\n");

}

printf("The number of different rules are %d",p);

}

**Output**

