class Sieve of Eratosthenes

{

void Sieve of Eratosthenes (int n)

{

boolean prime[ ]=new boolean[n+1];

for (int i=0; i<=n; i++)

prime[i ]=true;

for (int j=2; j\*j<=n; j++)

if(prime[j ]=true)

{  
for (int i= j\*j; i<=n; i=i+j)

prime[i ]=false;

}

}

for (int i=2; i<=n; i++)

if(prime[i ]=true)

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

}

}

public static void main(String args [ ] )

{

int n=10;

System.out.println("following are prime numbers");

System.out.println("smaller than or equal to", +n);

Sieve of Eratosthenes g=new Sieve of Eratosthenes( );

g.Sieve of Eratosthenes(n);

}

}