```
public class factorial
 static int factorial(int n)
     if(n==1)
       return 1;
     else
       return n*factorial(n-1);
public static void main(String[] args) {
 System.out.println("Hello World");
 int r;
 r=factorial(5);
 System.out.println(r);
2)
/*netsed methods*/
public class nested
  void display()
    System.out.println("hio");
  void disp()
    display();
    System.out.println("hello");
public static void main(String[] args) {
 System.out.println("Hello World");
   nested m=new nested();
   m.disp();
3)
/*returning objects*/
public class Main
  int a;
  Main(int x)
     a=x;
Main add()
```

```
Main m=new Main(a+10);

return m;
}
void display()
{
    System.out.println(a);
}
public static void main(String args[])
{
    Main m=new Main(10);
    Main m1;
    m1=m.add();
    m1.display();
}
}
```