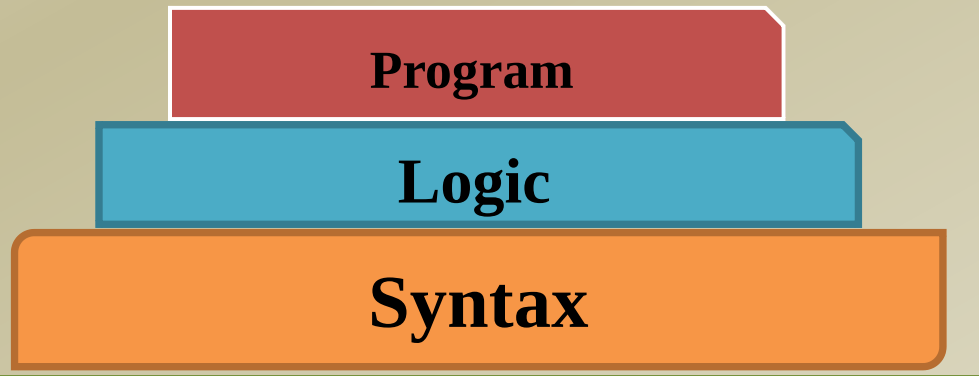
Code at Random (OPC) PVT. LTD.

Programming with Parameters - III



Programming using parameters -III

a) WAP to create a class **valid_time** to check whether the given time is valid or not, which have three functions:-

- **void time_24_clock(int hh, int min, int sec):-** This function checks the given time is valid or not in 24 hour clock.
- **void time_12_clock(int hh, int min, int sec, char meridian):-** This function checks the given time is valid or not in 12 hour clock.
- **public static void main(String Args[ ]):-** This function displays the menu with two choices :- **1. 24-hour clock ;**

  2. 12-hour clock

and depending on your choice construct **main()** function using switch to call their respective function.

```
import java.util.*;
class valid_time{
 void time_24_clock(int hh, int min, int sec) {
     if((hh>=0&&hh<=23)&&(min>=0&&min<=59)&&(sec>=0&&sec<=59))
         System.out.println(hh+":"+min+":"+sec+" is Valid Time");
    else
         System.out.println(hh+":"+min+":"+sec+" is InValid Time");
 void time_12_clock(int hh, int min, int sec, char meridian){
     if((hh>=1&&hh<=12)&&(min>=0&&min<=59)&&(sec>=0&&sec<=59))
         System.out.println(hh+":"+min+":"+sec+" "+ meridian+" is Valid Time");
        else
            System.out.println(hh+":"+min+":"+sec+" is InValid Time");
   }
public static void main(String Args[])
 {
     valid_time ob= new valid_time();
    int ch, hour, min,sec;
   Scanner sc= new Scanner(System.in);
   System.out.println("1. 24 hour clock");
   System.out.println("2. 12 hour clock");
   System.out.println("Enter your choice");
   ch= sc.nextInt();
```

```
switch(ch){
      case 1:
        System.out.println("Enter your time");
        hour= sc.nextInt();
        min= sc.nextInt();
        sec= sc.nextInt();
        ob.time_24_clock(hour,min,sec);
      break;
      case 2:
         System.out.println("Enter your time");
         hour= sc.nextInt();
        min= sc.nextInt();
        sec= sc.nextInt();
        System.out.println("Enter meridian a for am and p for pm");
        char meridian= sc.next().charAt(0);
        ob.time_12_clock (hour,min,sec,meridian);
      break;
      default:
        hour=0;min=0;sec=0;
        System.out.println("Wrong CHoice");
    }
 }
 }
```