1.

```
public class Solution {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
String sub = sc.nextLine();
int n = Integer.parseInt(sub);
for(int i=0;i<n;i++){
String[] input = sc.nextLine().split(" ");
if(input[0].equals("ENGINEER")){
Engineer e = new Engineer();
e.setSalary(Integer.parseInt(input[2]));
e.setGrade(input[1]);
e.label();
System.out.println("GRADE : " + e.getGrade());
System.out.println("SALARY : " + e.getSalary());
}
if(input[0].equals("MANAGER")){
Manager e = new Manager();
e.setSalary(Integer.parseInt(input[2]));
e.setGrade(input[1]);
e.label();
System.out.println("GRADE : " + e.getGrade());
System.out.println("SALARY : " + e.getSalary());
}
}
}
}
```

2.

```
class Nagesh
{
   public static void main (String[] args)
   {
      int [] a = {1,2,3,4};
      System.out.println("Maximum contiguous sum is " + maxSubArraySum(a));
   }
   static int maxSubArraySum(int a[])
   {
      int size = a.length;
      int max_so_far = Integer.MIN_VALUE, max_ending_here = 0;
      for (int i = 0; i < size; i++)
      {
         max_ending_here = max_ending_here + a[i];
         if (max_so_far < max_ending_here)
            max_so_far = max_ending_here;
         if (max_ending_here < 0)
            max_ending_here = 0;
      }
      return max_so_far;
   }
}
```

MCQS

1. C
2. B
3. B
4. D
5. C
6. C
7. D
8. A
9. C
10. D
11. B
12. D
13. D
14. D
15. A
16. D
17. A
18. C
19. A
20. D
21. D
22. B
23. B
24. D
25. A
26. B
27. A
28. A
29. C
30. A