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Class → MCA-B
Roll no. → 2001149
Subject → Java Programming

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Ans 2→

```
abstract class Person {
    String person_name;
    int id;
    setDetails (String name, int id, double salary,
                int joining year);
    Person (String pn, int id2)
    {
        person_name = pn;
        id = id2;
    }
}
class Employee extends Person {
    double salary;
    int joining year;
void setDetails (String name, int id, double salary,
        int joining-year)
{
    if (id <= 0)
    {
        system.out.println ("invalid id");
    }
```

```
if (salary < 1000 || salary > 40000)
{
  System.out.println("invalid salary");
}
int num, count = 0;
num = joining-year;
while (num != 0)
{
   num = num/10;
   count++;
}
if (count != 4)
{
  System.out.println("invalid year of joining");
}
else if (joining-year < 1994 || joining-year > 2021)
System.out.println("invalid year of joining");
}
void updateSalary (int years)
{
  System.out.println("old salary is:"+salary);
  if (years > 3)
  {
    salary = salary + (5 * salary) /100;
  }
```

```
        if (years > 5)
        salary = salary + (9 * salary)/100;
        if (years > 10)
        salary = salary + (15 * salary)/100;
        System.out.println("New salary is: " + salary);
    }
}
public class Test {
public static void main (String args[]) {
Person myobj = new Person ("Shubham", 20149);
Employee myobj2 = new Employee ("Shubham2", 2);
myobj2.setDetails("Aman", 115, 3000, 2019);
myobj2.updateSalary (6);
}
}
```