MANAV RACHNA UNIVERSITY, FARIDABAD
Department of Computer Science and Technology

Course: B.Tech. CSE **Semester: 6** **Session: Jan**

2021-May 2021 Subject: Agile Technologies (CSW317B)

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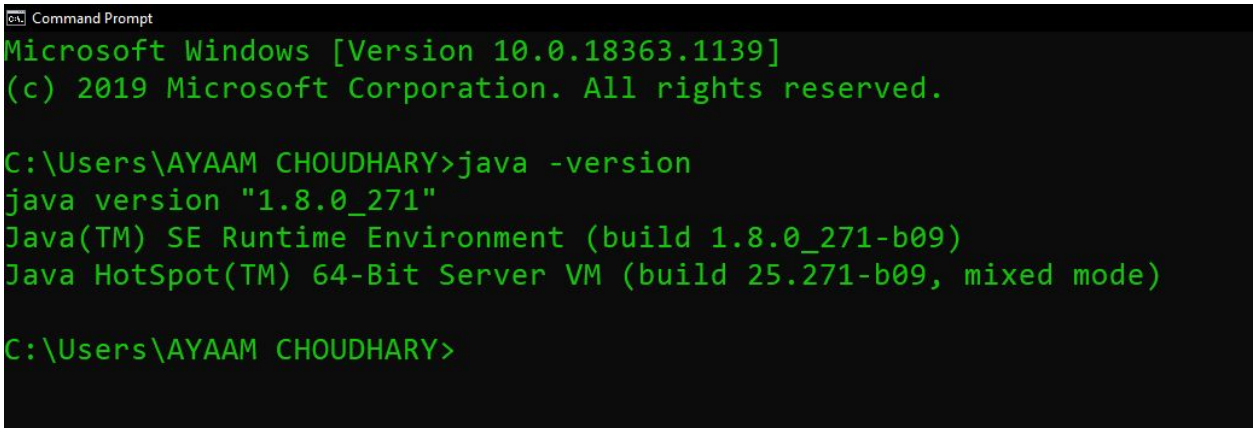
LAB 0 Experiment

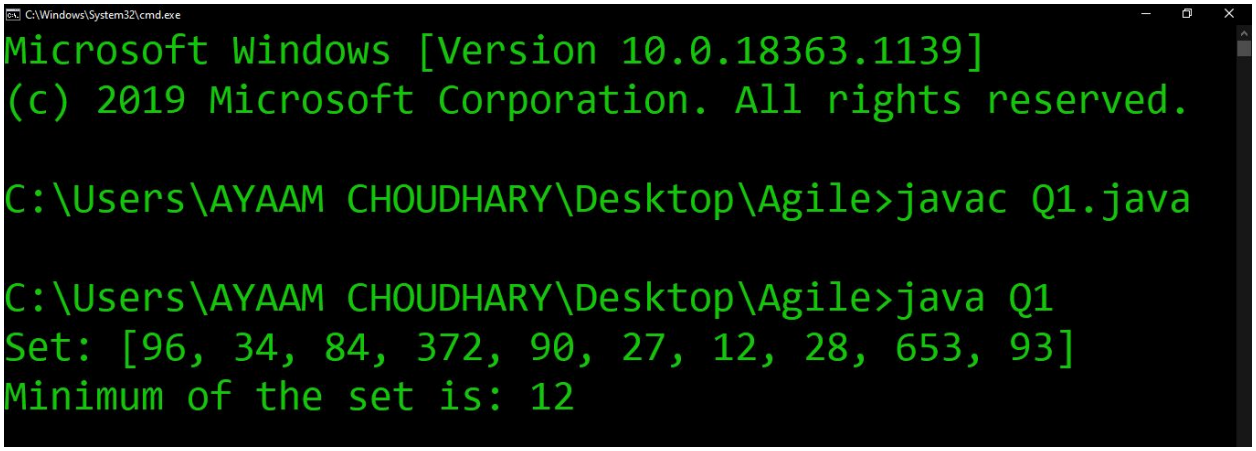
1. Install JDK (Java Development Kit) any version 1.5 or above and verify the correctness of installation.



2. Write the following Java program:
   (i) Write a Java program to find the minimum of a set of 10 numbers

```java
import java.util.*;
public class Q1
{
    public static void main(String args[])
    {
        Set<Integer> set = new HashSet<Integer>();
        set.add(34);
        set.add(653);
        set.add(12);
        set.add(96);
        set.add(28);
        set.add(84);
        set.add(93);
        set.add(372);
        set.add(27);
        set.add(90);
        System.out.println("Set: " + set);
        int minSet = Collections.min(set);
        System.out.println("Minimum of the set is: " + minSet);
    }
}
```

Java source file | length : 488 lines : 21 | Ln : 1 Col : 1 Pos : 1 | Windows (CR LF) | UTF-8 | INS




```
import java.util.*;
public class Q1
{
	public static void main(String args[])
	{
		Set<Integer> set = new HashSet<Integer>();
		set.add(34);
	set.add(653);
	set.add(12);
	set.add(96);
		set.add(28);
	set.add(84);
	set.add(93);
	set.add(372);
		set.add(27);
	set.add(90);
		System.out.println("Set: " + set);
		int minSet = Collections.min(set);
		System.out.println("Minimum of the set is: " + minSet);
	}
}
```

(ii) Write a Java program to compute the annual increment amount of employees using the following strategy:

- If the monthly salary of an employee is less than Rs. 1 Lakh increment should be 15 % of the annual salary
- If monthly salary is in the range of Rs.1 Lakh to Rs. 2 Lakh increment should be 10% of annual salary
- If the monthly salary is more than Rs. 2 Lakh increment should be 5% of the annual salary

C:\Users\AYAAM CHOUDHARY\Desktop\Agile\Q2.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Q2.java

```
1  import java.util.Scanner;
2  public class Q2
3  {
4      public static void main(String args[])
5      {
6          System.out.print("Enter your Salary: ");
7          Scanner inp = new Scanner(System.in);
8          double sal = inp.nextDouble();
9          if(sal<100000)
10         {
11             sal = (sal*12*0.15)+(sal*12);
12             System.out.println("Incremented Salary is: " +sal);
13         }
14         else if(100000<=sal & sal<200000)
15         {
16             sal = (sal*12*0.10)+(sal*12);
17             System.out.println("Incremented Salary is: " +sal);
18         }
19         else if(sal>=200000)
20         {
21             sal = (sal*12*0.05)+(sal*12);
22             System.out.println("Incremented Salary is: " +sal);
23         }
24     }
25 }
```

Java source file | length : 596 lines : 25 | Ln : 6 Col : 39 Pos : 125 | Windows (CR LF) | UTF-8 | INS

```
C:\Users\AYAAM CHOUDHARY\Desktop\Agile>javac Q2.java

C:\Users\AYAAM CHOUDHARY\Desktop\Agile>java Q2
Enter your Salary: 35000
Incremented Salary is: 483000.0

C:\Users\AYAAM CHOUDHARY\Desktop\Agile>java Q2
Enter your Salary: 150000
Incremented Salary is: 1980000.0

C:\Users\AYAAM CHOUDHARY\Desktop\Agile>java Q2
Enter your Salary: 505000
Incremented Salary is: 6363000.0

C:\Users\AYAAM CHOUDHARY\Desktop\Agile>
```

```
import java.util.Scanner;
public class Q2
{
	public static void main(String args[])
	{
		System.out.print("Enter your Salary: ");
		Scanner inp = new Scanner(System.in);
		double sal = inp.nextDouble();
		if(sal<100000)
		{
			sal	= (sal*12*0.15)+(sal*12);
			System.out.println("Incremented Salary is: " +sal);
		}
		else if(100000<=sal & sal<200000)
		{
			sal = (sal*12*0.10)+(sal*12);
			System.out.println("Incremented Salary is: " +sal);
		}
		else if(sal>=200000)
		{
			sal = (sal*12*0.05)+(sal*12);
			System.out.println("Incremented Salary is: " +sal);
		}
	}
}
```