Assignment: 5 I IT-24024
Jubayer Ahmed (1)

1. Sumclass.java

```
package ict.22;

public class Sumclass{
    public static double getSum(){
        double sum=0.0;
        double term=1.0;
        do{
            sum+=term;
            term-=0.1;
        }
        while(term>=0.1-1e-9);
        return sum;
    }
}
```

2. DivisonMultipleClass.java;

```
package ict.22;

public class DivisonMultipleClass{
    public static int gcd(int a, int b){
```

```
while(b!=0){
    int temp=b;
    b= a%b;
    a= temp;
}
return a;
}
public static int lcm(int a, int b){
    return (a*b)/gcd(a,b);
}
}
```

3. NumberConversionclass.java:

```
package ict.22;
public class NumberConversionclass {
    public static String decToBin(int num){
        return Integer.toBinaryString(num);
    }
```

IT-24027

Jubayer Ahmed (3)

```
public static String decToHex (int num){
    return Integer.toHexString(num).toUpperCase();
}

public static String decToOct(int num){
    return Integer.toOctalString(num);
}

public static int binToDec (String bin){
    return Integer.parseInt(bin,2);
}

public static int hexToDec (String hex){
    return Integer.parseInt(hex,16);
}

public static int octToDec (String oct){
    return Integer.parseInt(oct,8);
}
}
```

IT-24027

Jubayer Ahmed (4)

4. CustomPrintClass.java:

```
package ict.22;

public class CustomPrintClass{
    public static void (String message){
    System.out.println("[CustomPrint]" + message);
    }
}
```

5. MainClass.java

```
package ict.22;
public class mainclass{
    public static void main(String[] args){
    double result = sumclass.getsum();
    CustomPrintClass.pr("sum of series = "+result);

int a=12, b=18;
CustomPrintClass.pr("GCD("+a+","+b+")=
    "+DivisonMultipleClass.gcd(a,b));
```

IT-24027

Jubayer Ahmed (5)

```
CustomPrintClass.pr("LCM("+a+","+b")
=" + DivisorMultipleClass.lcm(a,b));

int num = 25;

CustomPrintClass.pr("Binary of 25 =" + Number
-ConversionClass.decToBin(num));

CustomPrintClass.pr(" Hex of 25=" + Number
-ConversionClass.decToHex(num));

CustomPrintClass.pr(" octal of 25=" +
NumberConversionClass.decToOCT(num));

CustomPrintClass.pr(" Binary 1101 to Decimal="
+ NumberConversionClass.binToDec("1101"));

CustomPrintClass.pr(" Hex 19 to Decimal="
+ NumberConversionClass.HexToDec("19"));

CustomPrintClass.pr(" OCT 31 to decimal ="
+ NumberConversionClass.OCTtodec("31");
}
}
```