```
Final Assessment
                 Name: Tofayel Ahmed
                  ID: 201-15-3053
                  Section: PC_I
             Ans to the question No-1_a
Α/
abstract class Person {
    public String getDate of birth;
    public String Desingnation;
    public String date_of_birth;
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate of birth(String date of birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
    }
    public Byte getAge() {
        Byte a = null;
        return a;
    }
}
interface EmployerProfessor {
    public void employPeople();
```

```
}
class HeadofDept extends Person implements EmployerProfessor {
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    }
    public void manage() {
        System.out.println("All works is Managed");
    }
    @Override
    public void employPeople() {
        System.out.println("We work for Education");
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate_of_birth(String date_of_birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
    }
    public Byte getAge() {
```

```
int gap = 2021 - Integer.parseInt(date_of_birth);
        Byte a = (byte) gap;
        return a;
    }
}
class Profossor extends Person implements EmployerProfessor {
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    }
    @Override
    public void employPeople() {
        System.out.println("I am profossor of this varsity");
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate of birth(String date of birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
    }
    public Byte getAge() {
        int gap = Integer.parseInt(date_of_birth) - 2021;
```

```
Byte a = (byte) gap;
        return a;
    }
}
class Student extends Person {
    private Byte grade;
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    public Byte getGrade() {
        if(grade<3)System.out.println("\nYour result is not</pre>
good"); //uses of else if
        else System.out.println("\nYour result is not bad ");
        return grade;
    }
    public void setGrade(Byte grade) {
        this.grade = grade;
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate of birth(String date of birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
```

```
}
    public Byte getAge() {
        int gap = Integer.parseInt(date_of_birth) - 2021;
        Byte a = (byte) gap;
        return a;
    }
}
                   Ans to the question no-1_b
B/
abstract class Person {
    public String getDate_of_birth;
    public String Desingnation;
    public String date of birth;
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate of birth(String date of birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
    }
    public Byte getAge() {
        Byte a = null;
        return a;
}
```

```
interface EmployerProfessor {
    public void employPeople();
}
class HeadofDept extends Person implements EmployerProfessor {
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    }
    public void manage() {
        System.out.println("All works is Managed");
    }
    @Override
    public void employPeople() {
        System.out.println("We work for Education");
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate_of_birth(String date_of_birth) {
        this.date_of_birth = date_of_birth;
    }
    public String getDesingnation() {
        return Desingnation;
```

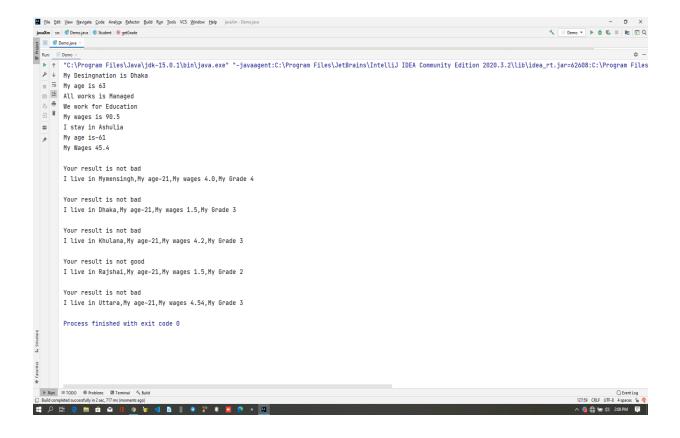
```
}
    public Byte getAge() {
        int gap = 2021 - Integer.parseInt(date_of_birth);
        Byte a = (byte) gap;
        return a;
    }
}
class Profossor extends Person implements EmployerProfessor {
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    }
    @Override
    public void employPeople() {
        System.out.println("I am profossor of this varsity");
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate_of_birth(String date_of_birth) {
        this.date of birth = date of birth;
    }
    public String getDesingnation() {
        return Desingnation;
    }
```

```
public Byte getAge() {
        int gap = Integer.parseInt(date_of_birth) - 2021;
        Byte a = (byte) gap;
        return a;
    }
}
class Student extends Person {
    private Byte grade;
    private double wage;
    public double getWage() {
        return wage;
    }
    public void setWage(double wage) {
        this.wage = wage;
    public Byte getGrade() {
        if(grade<3)System.out.println("\nYour result is not</pre>
good"); //uses of else if
        else System.out.println("\nYour result is not bad ");
        return grade;
    }
    public void setGrade(Byte grade) {
        this.grade = grade;
    }
    void setDesingnation(String desingnation) {
        Desingnation = desingnation;
    }
    public void setDate_of_birth(String date_of_birth) {
        this.date_of_birth = date_of_birth;
    }
```

```
public String getDesingnation() {
        return Desingnation;
    }
    public Byte getAge() {
        int gap = Integer.parseInt(date_of_birth) - 2021;
        Byte a = (byte) gap;
        return a;
    }
}
public class Demo {
    public static void main(String[] args) {
        HeadofDept AkterSir = new HeadofDept();
        AkterSir.setDesingnation("Dhaka");
        System.out.println("My Desingnation is
"+AkterSir.getDesingnation());
        AkterSir.setDate of birth("1958");
        System.out.println("My age is "+AkterSir.getAge());
        AkterSir.manage();
        AkterSir.employPeople();
        AkterSir.setWage(90.5);
        System.out.println("My wages is "+AkterSir.getWage());
        Profossor sir =new Profossor();
        sir.setDesingnation("Ashulia");
        System.out.println("I stay in "+sir.getDesingnation());
        sir.setDate of birth("1960");
        System.out.println("My age is" +sir.getAge());
        sir.setWage(45.4);
       System.out.println("My Wages "+sir.getWage());
        Student[] PC_I;
        PC I = new Student[5];
        PC_I[0] = new Student();
        PC I[1] = new Student();
        PC_I[2] = new Student();
        PC_I[3] = new Student();
        PC I[4] = new Student();
```

```
//uses of array
```

```
PC I[0].setDesingnation("Mymensingh");
        PC I[0].setDate of birth("2000");
        PC I[0].setGrade((byte) 4);
        PC I[∅].setWage(4);
        PC_I[1].setDesingnation("Dhaka");
        PC_I[1].setDate_of_birth("2000");
        PC I[1].setGrade((byte) 3);
        PC I[1].setWage(1.5);
        PC I[2].setDesingnation("Khulana");
        PC_I[2].setDate_of_birth("2000");
        PC I[2].setGrade((byte) 3);
        PC I[2].setWage(4.2);
        PC I[3].setDesingnation("Rajshai");
        PC I[3].setDate_of_birth("2000");
        PC I[3].setGrade((byte) 2);
        PC I[3].setWage(1.5);
        PC I[4].setDesingnation("Uttara");
        PC I[4].setDate of birth("2000");
        PC I[4].setGrade((byte) 3);
        PC I[4].setWage(4.54);
       //uses of Loop
        for (int i = 0; i < 5; i++) {
            System.out.println("I live in
"+PC_I[i].getDesingnation()+","+"My age"+
PC I[i].getAge()+","+"My wages "+PC I[i].getWage()+","+"My
Grade "+PC_I[i].getGrade());
```



Ans to the question no\_2

## Ans to the que no-2 umL + question Setter # Examination + examinatioID: String + Name: String + ID: string # Name: String + designation: String - marks: int + timeDuration: float + Question Setters; class + performance (): void -setquesition(): Void # check (Amscript: boolean) + main (string[ ] angs] : void o void # Presentation #QUIZ + slidequality: String - is Sudden: Boolean + quiz Date: String + hasatep: boolean + presentationskill: int + present (slide: obs): void + onalquiz (): void

```
class number{
    public void PRINT() {
        System.out.println("number");
    }
}
                                       //inheritance
class digit extends number {
   @Override
    public void PRINT() {
        System.out.println("digit");
    }
    public int Multiply(int x, int y) {
        return x*y;
    }
}
                                      //Encaptulationsulation
example
```

```
class EncaptulationSample {
    private String charcter;
    public String getcharcter() {
        return charcter;
    }
    public void setcharcter(String newcharcter) {
        charcter = newcharcter;
    }
}
                                                  //abstraction
abstract class digitCreator {
    public abstract void go();
}
 class Prime_Number extends digitCreator{
    public void go(){
        System.out.println("\ndigit creating from number");
    }
}
 public class NumberGenaretor {
    public static void main(String[] args) {
        number OBJ=new number();
```

```
OBJ.PRINT();
        digit numeric=new digit();
        numeric.PRINT();
        System.out.println(numeric.Multiply(7,2));
//polymorphism
        EncaptulationSample Encaptulation = new
EncaptulationSample();
        Encaptulation.setcharcter("7");
        System.out.print( Encaptulation.getcharcter() );
        digitCreator Sample = new Prime_Number();
        Sample.go();
    }
}
In this code, take number and it converts to digit and digit
inherit from number. This value set by encapsulation that hide
data from other. And abstraction is built by it is common
functionality. And multiple inheritance creates polymorphism.
```

