

Section 2

Question 1

Solution:

```
class Grade{
    public static void main(String args[]){
        int score = 89;
        if(score>90){
            System.out.println("A");
        }else if(score>=80 && score<=89){
            System.out.println("B");
        }else if(score>=70 && score<=79){
            System.out.println("C");
        }else if(score>=60 && score<=69){
            System.out.println("D");
        }else{
            System.out.println("F");
        }
    }
}
```

Question 2

Solution:

```
class Day{
    public static void main(String args[]){
        int day = 4;
        switch(day){
            case 1:
                System.out.println("Monday");
                switch("weekday"){
                    case "weekday":
                        System.out.println("Weekday");
                        break;
                }
                break;

            case 2:
                System.out.println("Tuesday");
                switch("weekday"){
                    case "weekday":
                        System.out.println("Weekday");
                        break;
                }
                break;

            case 3:
                System.out.println("Wednesday");
                switch("weekday"){
                    case "weekday":
                        System.out.println("Weekday");
                        break;
                }
                break;
        }
    }
}
```

```

        case 4:
            System.out.println("Thursday");
            switch("weekday"){
                case "weekday":
                    System.out.println("Weekday");
                    break;
            }
            break;

        case 5:
            System.out.println("Friday");
            switch("weekday"){
                case "weekday":
                    System.out.println("Weekday");
                    break;
            }
            break;

        case 6:
            System.out.println("Saturday");
            switch("weekend"){
                case "weekend":
                    System.out.println("Weekend");
                    break;
            }
            break;

        case 7:
            System.out.println("Sunday");
            switch("weekend"){
                case "weekend":
                    System.out.println("Weekend");
                    break;
            }
            break;

        default:
            System.out.println("Invalid");
            break;
    }
}
}

```

Question 3

Solution:

```

class Calc{
    public static void main(String args[]){
        int a,b;
        a = 20;
        b = 10;
        char op = '/';
        switch(op){
            case '+':
                System.out.println(a+b);
                break;
            case '-':

```

```

        System.out.println(a-b);
        break;
        case '/':
        if(b!=0){
        System.out.println(a/b);
        }else{
        System.out.println("Error: Division by zero is not
        allowed.");
        }
        break;
        case '*':
        System.out.println(a*b);
        break;
        default:
        System.out.println("Invalid expression");
        break;
    }
}
}

```

Question 4

Solution:

```

public class Discount{
    public static void main(String args[]){
        double discount;
        double price=666.0;
        boolean mem = true;
        if(price>=1000){
            discount = 20.0;
        }
        else if (price >=500 && price<=999){
            discount = 10.0;
        }
        else{
            discount = 5.0;
        }
        if(mem){
            discount +=5.0;
        }

        double finalPrice = price - (price*(discount/100));

        System.out.println(finalPrice);
    }
}

```

Question 5

Solution:

```

public class StudentPassFail{
    public static void main(String args[]){
        int a=50;
        int b=6;
        int c=45;

        if(a>=40 && b>=40 && c>=40){

```

```
        System.out.println("Passes");
    }
    else{
        System.out.println("Fails");
    }
}
}
```