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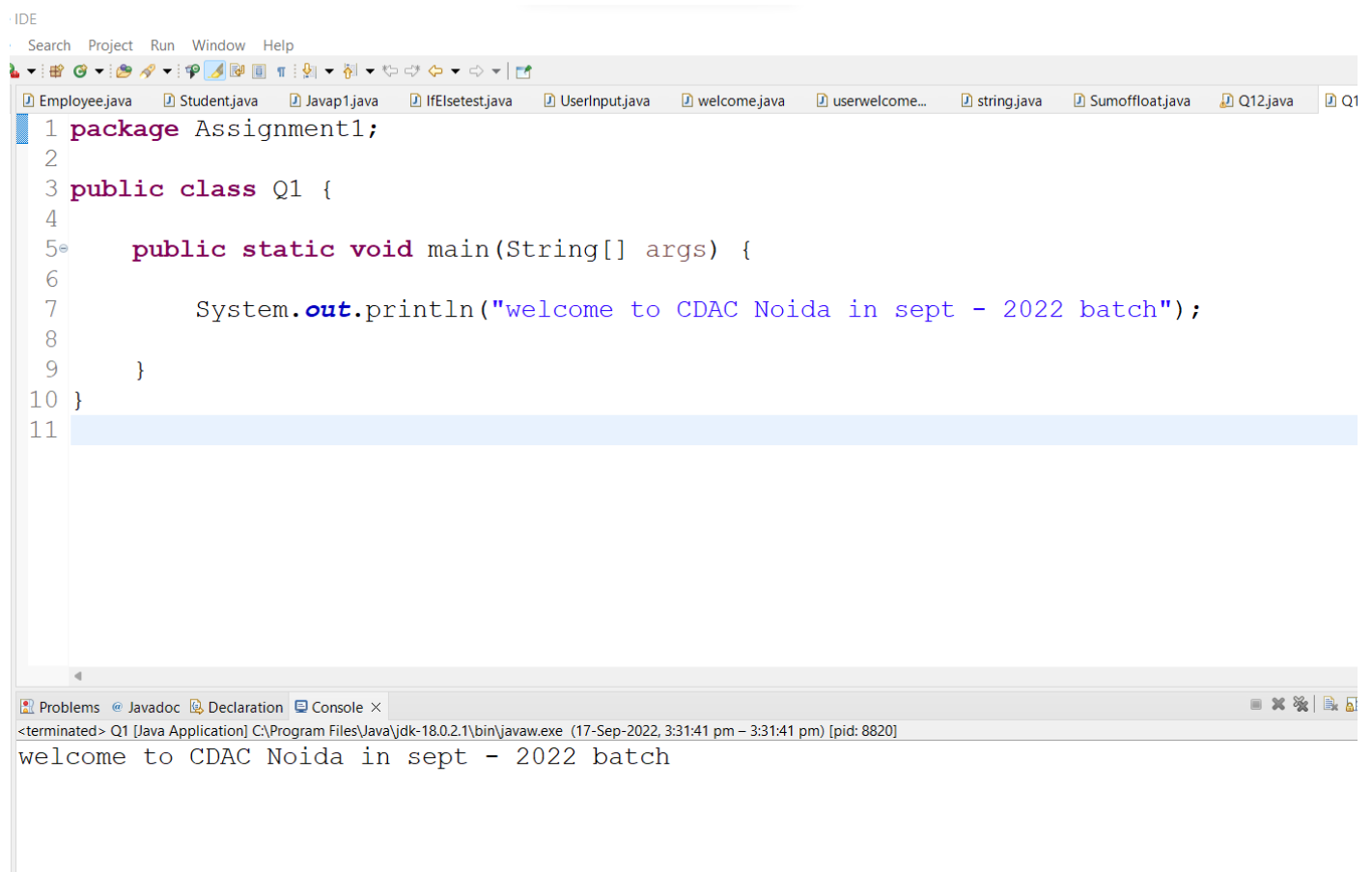
Batch-B

ASSIGNMENT NO.1

CONCEPT OF PROGRAMMING

Q1. Write a Java program to print welcome message.

Program :



The screenshot shows an IDE window with a Java file named 'Q1.java'. The code is as follows:

```
1 package Assignment1;  
2  
3 public class Q1 {  
4  
5     public static void main(String[] args) {  
6  
7         System.out.println("welcome to CDAC Noida in sept - 2022 batch");  
8  
9     }  
10 }  
11
```

The IDE's toolbar and tabs are visible at the top. The bottom panel shows the 'Console' tab with the output: 'welcome to CDAC Noida in sept - 2022 batch'. The status bar at the very bottom indicates the application was terminated.

Q2. Java program to print sum of three float numbers

Program :

```
1 package Assignment1;
2 import java.util.Scanner;
3 public class Q2 {
4
5     public static void main(String[] args) {
6
7         float num1;
8         float num2;
9         float num3;
10
11         Scanner s = new Scanner(System.in);
12         System.out.println("enter first number : ");
13         num1 = s.nextFloat();
14
15         System.out.println("enter second number : ");
16         num2 = s.nextFloat();
17
18         System.out.println("enter three number : ");
19         num3 = s.nextFloat();
20
21         System.out.println(" After addition : " + (num1+num2+num3));
22     }
23
24 }
```

Output :

```
enter first number :
20.25
enter second number :
30.25
enter three number :
40.36
After addition : 90.86
```

Q 3. Java Program to Swap Two Numbers

Program :

```
1 package Assignment1;
2
3 import java.util.Scanner;
4
5 public class Q3 {
6
7     public static void main(String[] args) {
8         int num1;
9         int num2;
10        int temp;
11
12        Scanner s = new Scanner(System.in);
13        System.out.println("Enter num1 : ");
14        num1 = s.nextInt(); // to collect integer value from user
15
16        System.out.println("Enter num2 : ");
17        num2 = s.nextInt(); // to collect integer value from user
18
19        System.out.println("before Swapping numbers are : " + num1 + " " + num2);
20        temp = num1;
21        num1 = num2;
22        num2 = temp;
23
24        System.out.println("After Swapping numbers are : " + num1 + " " + num2);
25    }
```

Output :

```
Enter num1 :
25
Enter num2 :
35
before Swapping numbers are : 25 35
After Swapping numbers are : 35 25
```

Q 4 Write a program to check if number is even or odd.

Program :

```
1 package Assignment1;
2 import java.util.Scanner;
3 public class Q4 {
4
5     public static void main(String[] args) {
6
7         Scanner s = new Scanner(System.in);
8         int x;
9
10        System.out.println("Enter the number x : ");
11        x = s.nextInt();
12
13        if((x % 2) == 0)
14        {
15            System.out.println("X is Even ");
16        }
17        else
18        {
19            System.out.println("X is odd ");
20        }
21    }
22 }
23
24 }
25
```

Output :

```
Enter the number x :
333
X is odd
```

Q5. Write a Program to check from three given number that whether a number is greater than or equal to 20 and less than other numbers .print appropriate message .

Program :

```
1 package Assignment1;  
2  
3 public class Q5 {  
4  
5     public static void main(String[] args) {  
6  
7         int A = 41;  
8         int B = 42;  
9         int C = 43;  
10  
11         if(A >= 20 && (A <= B && A <= C))  
12         {  
13             System.out.println("condtion is true ");  
14         }  
15  
16         else  
17         {  
18             System.out.println(" condtion is False ");  
19         }  
20     }  
21 }  
22 }  
23
```

Output :

Condition is true

Q 7 write a program to check if sales of a person is greater than 10000 then eligible for bonus, else not eligible calculate bonus as 20% of sales .

Program :

```
1 package Assignment1;  
2 import java.util.Scanner;  
3 public class Q7 {  
4  
5     public static void main(String[] args) {  
6  
7         Scanner s = new Scanner(System.in);  
8  
9         float sale;  
10        float Bonus;  
11  
12        System.out.println("Enter the sale : ");  
13        sale = s.nextFloat();  
14  
15        if(sale >= 10000)  
16        {  
17            System.out.println(" congrats your are eligible for bonus 100% sure ");  
18  
19            Bonus = sale * (20f/100f);  
20            System.out.println("Bonus = " + Bonus);  
21  
22        }  
23        else  
24        {  
25            System.out.println("Sorry you are not eligible for Bonus better luck next time");  
26  
27        }  
28    }  
29 }
```

Output :

```
Enter the sale :  
50000  
    congrats your are eligible for bonus 100% sure  
Bonus = 10000.0
```

Q 8 write a program to check if two given integer value is in range of 18 and 100 print eligible for voting else not eligible .

Program :

```
1 package Assignment1;  
2 import java.util.Scanner;  
3 public class Q7 {  
4  
5     public static void main(String[] args) {  
6  
7         Scanner s = new Scanner(System.in);  
8  
9         float sale;  
10        float Bonus;  
11  
12        System.out.println("Enter the sale : ");  
13        sale = s.nextFloat();  
14  
15        if(sale >= 10000)  
16        {  
17            System.out.println(" congrats your are eligible for bonus 100% sure ");  
18  
19            Bonus = sale * (20f/100f);  
20            System.out.println("Bonus = " + Bonus);  
21  
22        }  
23        else  
24        {  
25            System.out.println("Sorry you are not eligible for Bonus better luck next time");  
26  
27        }  
28    }  
29 }
```

Output :

```
Enter the two numbers :  
16  
25  
A number is not eligible for voting  
B number is eligible for voting
```


Q 9 Write a program to print average of given five subjects marks of student and check if average ≥ 40 print Pass else print fail

Program :

```
1 package Assignment1;  
2  
3 public class Q9 {  
4  
5     public static void main(String[] args) {  
6  
7         int math = 70;  
8         int sci = 75;  
9         int phy = 65;  
10        int che = 68;  
11        int bio = 72;  
12        float Avg;  
13        Avg = ((math + sci + phy + che + bio)/5);  
14        if(Avg >= 40)  
15        {  
16            System.out.println(" PASS ");  
17        }  
18        else  
19        {  
20            System.out.println(" FAIL ");  
21        }  
22    }  
23 }  
24  
25 }  
26
```

Output :

PASS

Q10 . Write a program to ask name ,age and salary of an employee and print on console.

Program :

```
1 package Assignment1;  
2  
3 import java.util.Scanner;  
4 public class Q10 {  
5  
6     public static void main(String[] args) {  
7  
8         Scanner s = new Scanner(System.in);  
9  
10        String name;  
11        int empid;  
12        float salary;  
13  
14        System.out.println("Enter the Name of employee : ");  
15        name = s.nextLine();  
16  
17        System.out.println("Enter the ID of employee : ");  
18        empid = s.nextInt();  
19  
20        System.out.println("Enter the Salary of employee : ");  
21        salary = s.nextFloat();  
22  
23        System.out.println("Employee Name : " + name);  
24        System.out.println("Employee ID : " + empid );  
25        System.out.println("salary of emp : " + salary);  
26    }  
27  
28 }
```

Output :

```
Enter the Name of employee :  
Irfan shaikh  
Enter the ID of employee :  
220608174  
Enter the Salary of employee :  
200000  
Employee Name : Irfan shaikh  
Employee ID : 220608174  
salary of emp : 200000.0
```

Q 11. Write a Program that ask two numbers from user and print greater number among two

Program :

```
1 package Assignment1;  
2  
3 import java.util.Scanner;  
4 public class Q11 {  
5  
6     public static void main(String[] args) {  
7  
8         Scanner s = new Scanner(System.in);  
9  
10        System.out.println("Enter the two numbers : ");  
11        int A = s.nextInt();//50  
12        int B = s.nextInt();//60  
13        int C = s.nextInt();//70  
14  
15        if(A > B && A > C )  
16        {  
17            System.out.println(" A is greater than B and C ");  
18        }  
19        else if(B > A && B > C)  
20        {  
21            System.out.println(" B is greater than A and C ");  
22        }  
23        else  
24        {  
25            System.out.println(" C is greater than A and B ");  
26        }  
27  
28  
29    }  
30  
31 }
```

Output :

```
Enter the two numbers :  
50  
60  
70  
C is greater than A and B
```

Q 12 Write a program to ask product name and price of product from user and calculate discount i.e. if price > 2000 then discount is 10 percent of price else discount is 7 % of price.

Program :

```
1 package Assignment1;  
2 import java.util.Scanner;  
3  
4 public class Q12 {  
5  
6     public static void main(String[] args) {  
7  
8         Scanner s = new Scanner(System.in);  
9         String Nameofproduct;  
10        float price;  
11        float discount;  
12  
13  
14        System.out.println("Enter the product name : ");  
15        Nameofproduct = s.nextLine();  
16  
17        System.out.println("Enter the product price : ");  
18        price = s.nextFloat();  
19  
20        if(price > 2000)  
21        {  
22            discount = (price * (10f/100f));  
23            System.out.println("discount = " + discount);  
24        }  
25        else  
26        {  
27            discount = (price * (7f/100f));  
28            System.out.println("discount = " + discount);  
29        }  
30    }  
31 }  
32 }  
33 }
```

Output :

```
Enter the two numbers :  
50  
60  
70  
C is greater than A and B
```

