Conditionals

Assignment Questions





Assignment Questions



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QI - Write a program which takes the values of length and breadth from user and check if it is
                                                                                                                                                             (Easy)
      a square or not.
                                                           import java.util.Scanner;
Sample Input:
                                                           public class prac_conditional {
                                                              public static void main(String[] args) {
Enter length:
                                                                Scanner sc = new Scanner(System.in);
                                                                int I = sc.nextInt();
                                                                int b = sc.nextInt();
Enter breadth:
                                                                if (I == b) {
                                                                  System.out.println("it is square");
4
                                                                  System.out.println("it is a rectangle");
Sample Output: It is a rectangle
                                                                                                                      import java.util.Scanner;
Q2 - Write a program to print absolute value of a number entered by the user. public class prac_conditional (
                                                                                                                                                             (Easy)
                                                                                                                        public static void main(String[] args) {
                                                                                                                         Scanner sc = new Scanner(System.in);
Sample Input: -1
                                                                                                                        int n = sc.nextInt()
                                                                                                                          System.out.println(Math.abs(n));
Sample Output: 1
Q3 - Write a program to take input from user for Cost Price (C.P.) and Selling Price (S.P.) and
                                                                                                                                                             (Easy)
       calculate Profit or Loss.
                                                                 import java.util.Scanner;
Explanation: Formula for profit and loss
                                                                 public class prac_conditional {
                                                                   public static void main(String[] args) {
   Scanner sc = new Scanner(System.in);
Profit = S.P - C.P
                                                                     System.out.println("Enter your cost price");
Loss = C.P - S.P
                                                                    int C_P = sc.nextInt();
                                                                    System.out.println("Enter your selling price");
int S_P = sc.nextInt();
(S.P is Selling Price and C.P is Cost Price)
                                                                      System.out.println("Profit is :" + (S_P - C_P));
Sample Input:
                                                                      System.out.println(" Lose is : " + ( C_P - S_P));
                                                                                                                    import java.util.Scanner:
Enter cost price: 4000
                                                                                                                    public class prac 03 {
                                                                                                                      public static void main(String[] args) {
Enter selling price: 9560
                                                                                                                        Scanner sc = new Scanner(System.in):
                                                                                                                        System.out.println("Enter a number");
                                                                                                                        if (n<0) {
Sample Output:
                                                                                                                          System.out.println("The number is negative and skipped");
Profit = 5560
                                                                                                                          System.out.println(n):
Q4 - Write a program to print positive number entered by the user, if user enters a negative
                                                                                                                                                             (Easy)
       number, it is skipped
Sample Input: Enter an integer: -6
Sample Output: The number is negative and skipped
                                                                                                import java.util.Scanner;
Q5 - Create a calculator using switch statement to perform addition, subtraction, multiplication
                                                                                                                                                        (Medium)
       and division.
                                                                                                  public static void main(String[] args) {
                                                                                                    Scanner sc = new Scanner(System.in);
System.out.println("Enter your first Number");
Sample Input:
                                                                                                    double Num_01 = sc.nextDouble();
System.out.println("Enter your second number");
Enter an operator (+, -, *, /): -
                                                                                                    double Num_02 = sc.nextDouble();
System.out.println("Enter your optartor(+,-,*,/)");
char oprator = sc.next().charAt(0);
Enter two numbers:
                                                                                                    double result
                                                                                                    switch (oprator){
6
                                                                                                        result = Num_01 + Num_02;
8
                                                                                                        break
                                                                                                        result = Num_01 - Num_02;
                                                                                                        break
Sample Output : 6 - 8 = -2
                                                                                                        result = Num_01 * Num_02;
                                                                                                      case 1/1
                                                                                                        result = Num_01 / Num_02;
                                                                                                      default:
                                                                                                        System.out.println("Invalid input");
```

Assignment Questions



Q6 - Write a program to calculate marks to grades . Follow the conversion rule as given below :

(Medium)

100 – 90	Α+
90 – 80	Α
80 – 70	B+
70 – 60	В
60 – 50	С
50 – 40	D
40 – 30	E
30 – 0	F

Sample Input: Enter Your Marks: 98 Sample Output: Your Grade is A+

```
import java.util.Scanner;
public class Calculator ques {
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
    int n = sc.nextInt();
    if (n \ge 0 \&\& n \le 30){
       System.out.println("F");
    } else if (n> 30 && n <= 40) {
       System.out.println("E");
    System.out.println("D");
    } else if (n > 50 && n <=60) {
       System.out.println("C");
    ellipse if (n > 60 \&\& n <= 70) {
       System.out.println("B");
    } else if (n > 70 && n <=80) {
       System.out.println("B+");
    else if (n > 80 && n <= 90) {
       System.out.println("A");
    else if (n > 90 \&\& n <= 100) {
       System.out.println("A+");
       System.out.println("Enter number between 100 to 0");
```