**Homework2: Loop**

Find the factorial number of 5.



Answer:

package homewok3;

public class Answer1 {

    public static void main(String[] args) {

        int number = 5;

        long factorial = 1;

        for(int i = 1 ; i <= number ; i++) {

            factorial = factorial \* i;

        }

        System.out.println(factorial);

    }

}

Using while loop to calculate the sum of all even number from 1 to 50.



Answer:

package homewok3;

public class SumEven {

    public static void main(String[] args) {

        int sum = 0;

        int i = 1;

        while(i <= 50) {

            if(i % 2 == 0) {

                sum += i;

            }

            i++;

        }

        System.out.println(sum);

    }

}

Using do while loop to calculate the average of all odd number from 1 to 50.



Answer:

package homewok3;

public class Answer3 {

s

    public static void main(String[] args) {

        double agrs = 0;

        int count = 0;

        int sum = 0;

        int i = 1;

        do {

            if(i % 2 != 0) {

                count++;

                sum += conut;

            }

            i++;

        }while(i <= 50);

        agrs = sum / count;

        System.out.println(agrs);

    }

}

Using switch to solve the problem as below.

Let the user input any letter from keyboard and check

* Letter ‘a’ or ‘A’ display “You order BayChha.”
* Letter ‘b’ or ‘B’ display “You order Ice Tea.”
* Letter ‘c’ or ‘C’ display “You order Soup.”
* Other letter beside these display “Out of order…”

Answer:

Write Java Program to make pagination logic to display entities (rows or records of data) into datatable with select option to choose how many entities to show on each page which will be input from keyboard with the option as below:

* + - A or a: entities per page is 10
    - B or b: entities per page is 20
    - C or c: entities per page is 50
    - D or d: entities per page is 100
    - E or e: entities per page is 200
    - Default value of entities per page is 5

Answer:

package homewok3;

public class Answer4 {

    public static void main(String[] args) {

        ///for get when user input

    }

        Scanner sc = new Scanner(System.in);

         System.out.print("Enter name:");

         /// Type of dataType

         char letter = sc.next().charAt(0);

        switch(letter) {

            case 'a':

            case 'A':

                System.out.println("You order BayChha.");

                break;

            case 'b':

            case 'B':

                System.out.println("You order Ice Tea.");

                break;

            case 'c':

            case 'C':

                System.out.println("You order Ice Tea.");

                break;

            case 'd':

            case 'D':

                System.out.println("You order Soup.");

                break;

                default:

                    System.out.println("Out of order");

    }

}

**package** test;

**import** java.util.Scanner;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

System.***out***.println("Enter A or a to display 10 entities per page");

System.***out***.println("Enter B or b to display 20 entities per page");

System.***out***.println("Enter C or c to display 50 entities per page");

System.***out***.println("Enter D or d to display 100 entities per page");

System.***out***.println("Enter E or e to display 200 entities per page");

System.***out***.println("-------------------------------------");

System.***out***.println("Enter:");

System.***out***.println("Entities:150" );

**int** totalRecord = 150;

**int** perRecord = 5;

Scanner sc = **new** Scanner(System.***in***);

String letter = sc.nextLine();

**switch**(letter) {

**case** "a":

**case** "A":

perRecord = 10;

**break**;

**case** "b":

**case** "B":

perRecord = 20;

**break**;

**case** "c":

**case** "C":

perRecord = 50;

**break**;

**case** "d":

**case** "D":

perRecord = 100;

**break**;

**case** "e":

**case** "E":

perRecord = 200;

**break**;

}

**if**(totalRecords%recordPerPage==0) {

**for**(**int** i=1;i<=totalRecords/recordPerPage;i++) {

System.out.print("|Page"+i+":"+recordPerPage);

}

System.out.print("|");

}**else** {

**int** page = totalRecords/recordPerPage;

**for**(**int** i=1;i<=totalRecords/recordPerPage;i++) {

System.out.print("|Page"+i+":"+recordPerPage);

}

System.out.print("|Page"+(page+1)+":"+totalRecords%recordPerPage+"|");

}

}

}