**Pre Skills Demo 2**

**Screen output**

****

**Sample Source Code which must be edited and amended**

**import** java.util.\*;

**public** **class** BicycleHireClass {

 **static** **int** *NoOfChildBicycles*;

 **static** **int** *NoOfRacingBicycles*;

 **static** **int** *NoOfMountainBicycles*;

 **static** **int** *NoOfTouringBicycles*;

 **static** **double** *grossRevenue*, *grossDiscount*;

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

 // Bicycle Hire Program

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

 System.***out***.println("Enter 1 to Book a bicycle or 2 to Print daily report");

 **int** userChoice = in.nextInt();

 **while** (userChoice != 2){

 *bookBicycle*();

 System.***out***.println("Enter 1 to Book a bicycle or 2 to Print daily report");

 userChoice = in.nextInt();

 }

 *dailyReport*();

 in.close();

 }

 **static** **void** bookBicycle(){

 **double** childrens=5;

 **double** mountain=7.50;

 **double** racing=10;

 **double** touring=12.50;

 **double** cost=0, discount=0;

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

 System.***out***.println("Enter your age, please");

 **int** customerAge = in.nextInt();

 **if** (customerAge>8) {

 System.***out***.println("Enter number of days you wish to hire");

 **int** noOfDays = in.nextInt();

 System.***out***.println("Enter number for bicycle 1-Childrens, 2-Mountain, 3-Racing 4-Touring");

 **int** bicycleType = in.nextInt();

 **double** costPerDay=0;

 **switch** (bicycleType) {

 **case** 1: costPerDay = childrens;

 *NoOfChildBicycles*++;

 **break**;

 **case** 2: costPerDay = mountain;

 *NoOfMountainBicycles*++;

 **break**;

 **case** 3: costPerDay = racing;

 *NoOfRacingBicycles*++;

 **break**;

 **case** 4: costPerDay = touring;

 *NoOfTouringBicycles*++;

 **break**;

 }

 **if** (customerAge>18 && customerAge<24) {

 **if** (noOfDays>10) {

 cost=150;

 } **else** {

 cost=noOfDays \* 15;

 }

 }

 //Name - letters, spaces, a single quotation mark and a hyphen only

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

 String custName = in.next();

 //Address

 System.***out***.print("Enter address1");

 String custAddress1 = in.next();

 System.***out***.print("Enter address2");

 String custAddress2 = in.next();

 System.***out***.print("Enter address3");

 String custAddress3 = in.next();

 //PPSN

 **int** PPSNSize;

 **boolean** ValidPPSN=**false**;

 **while** (ValidPPSN=**false**) {

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

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

 String PPSN = inp.next();

 **for** (**int** index = 0; index < PPSN.length()-1;index++) {

 **char** aChar = PPSN.charAt(index);

 System.***out***.print(aChar + " ");

 System.***out***.print(PPSN.length());

 **if** (Character.*isDigit*(aChar))

 {

 ValidPPSN=**true**;

 System.***out***.print(ValidPPSN);

 }

 **else** {

 ValidPPSN=**false**;

 }

 }

 **char** lastChar = PPSN.charAt(7);

 **if** (Character.*isLetter*(lastChar) && ValidPPSN){

 ValidPPSN=**true**;

 }

 inp.close();

 }

 *grossRevenue*=+cost;

 *grossDiscount*=+discount;

 customerAge=1;

 }

 **else** {

 System.***out***.println("Too young to hire");

 }

 }

 **static** **void** dailyReport(){

 System.***out***.println("NoOfChildBicycles " + *NoOfChildBicycles*);

 System.***out***.println("NoOfRacingBicycles " + *NoOfRacingBicycles*);

 System.***out***.println("NoOfMountainBicycles " + *NoOfMountainBicycles*);

 System.***out***.println("NoOfTouringBicycles " + *NoOfTouringBicycles*);

 System.***out***.println("Total number of bicycles = " + (*NoOfChildBicycles* + *NoOfRacingBicycles* + *NoOfMountainBicycles* + *NoOfTouringBicycles*));

 System.***out***.println("Gross Revenue =" + *grossRevenue*);

 System.***out***.println("Discount =" + *grossDiscount*);

 System.***out***.println("NetRevenue = " + (*grossRevenue* - *grossDiscount*));

 }

}