**Bicycle Hire – Sample Code Unfinished**

**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*();

}

*dailyReport*();

}

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

**double** childrens=5;

**double** mountain=7.50;

**double** racing=10;

**double** touring=12.50;

**double** cost, discount;

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

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

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

**while** (customerAge>8) {

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

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

System.***out***.print("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 in = **new** Scanner(System.***in***);

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

String PPSN = in.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**;

}

}

*grossRevenue*=+cost;

*grossDiscount*=+discount;

}

}

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

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

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

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

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

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

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

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

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

}

}