**import** java.util.Scanner;

**public** **class** Hmw9 {

**public** **static** **void** menu(**int** selection)

{

System.***out***.println("Please select from the following");

System.***out***.println("1 - Run the program");

System.***out***.println("2 - Exit the program");

}

**public** **static** **int** getVal(){

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

**int** var= pg.nextInt();

**return** var;

}

**public** **static** **boolean** valid(**int** var){

**if** ((var<0) || (var>2))

**return** **false**;

**else**

**return** **true**;

}

**public** **static** **boolean** check(**int** speed){

**if** (speed<=0)

**return** **false**;

**else**

**return** **true**;

}

**public** **static** **int** CalculateD(**int** x, **int** y){

**int** distance= x\*y;

**return** distance;

}

**public** **static** **void** prompt(){

System.***out***.println("Please enter the speed");

}

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

{

// **TODO** Auto-generated method stub

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

**int** val = 0;

**do**{

*menu*(0);

**int** val1;

val1 = key.nextInt();

//running the code if the val1 = 1

**if** (val1 ==1){

**int** time , speed , hour;

**double** distance;

System.***out***.println("What is the speed of the vehicle in MPH?");

speed = key.nextInt();

//using while statement to check the speed

**while**(speed<=0)

{

System.***out***.println("Please enter a valid speed? ");

speed = key.nextInt();

}

//getting time from the user

System.***out***.println("How many hours has the vehicle traveled?");

time = key.nextInt();

//again using the while statement to check the time

**while**(time<=0)

{

System.***out***.println("Please enter a valid time ");

time = key.nextInt();

}

//displaying the time for the user

System.***out***.println("Hour Distance");

System.***out***.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

hour = 0;

**for**( **int** x = 1; x<=time;x++ )

{

hour++;

**if**(hour>1)

{

*CalculateD*(hour,speed);

**int** a;

a= *CalculateD*(hour, speed);

System.***out***.println(time+ " " +a);}

}

}

//completing the do while statement that started earlier in the program

}**while** (val!=2);

System.***out***.println("Exitting the program");

}

}

**Output**

Please select from the following

1 - Run the program

2 - Exit the program

2

Please select from the following

1 - Run the program

2 - Exit the program

2

Please select from the following

1 - Run the program

2 - Exit the program