```java
import java.util.*;
public class typeVal {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.out.println(((7/2)*2.0)+" float");
        System.out.println((7/2.0)*2+" float");
        System.out.println("2"+2+" string");
        System.out.println(2.0+"2"+" string");
        //System.out.println(typeof(2));
    }

}
```

Problems @ Java

<terminated> typeVal [

```
6.0 float
7.0 float
22 string
2.02 string
```

```java
import java.util.*;
public class radius {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        float r = sc.nextFloat();

        System.out.println("Diameter of the circle = "+2*r);
        System.out.println("Area of the circle = "+3.14*r*r);
        System.out.println("Circumference of the circle = "+2*3.14*r);
    }

}
```

Console:

```
<terminated> radius [Java Application] C:\Program Files\Java
7
Diameter of the circle = 14.0
Area of the circle = 153.86
Circumference of the circle = 43.96
```

Tabs: week2q5.java | typeVal.java | ShippingCharges.java ✕

```java
import java.util.*;

public class ShippingCharges {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter weight of your order");
        int weight = sc.nextInt();
        int total = 0;
        while(weight > 0) {
            if(weight<=10) {
                total+=3;
            }
            else {
                total+=3 + weight-10;
            }
            System.out.println("It costs you "+total);
            total=0;
            System.out.println("Enter weight of your order");
            weight = sc.nextInt();
        }
        System.out.println("Calculations Done!");
    }

}
```

Problems @ Javadoc Declaration

<terminated> ShippingCharges [Java Applica
Enter weight of your order
18
It costs you 11
Enter weight of your order
7
It costs you 3
Enter weight of your order
0
Calculations Done!

week2q1.java

```java
import java.util.*;
public class week2q1 {

    public int digits(int n) {
        int c=0;
        while(n != 0) {
            c++;
            n/=10;
        }
        return c;
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a 5 digit number");
        int n = sc.nextInt();
        week2q1 a = new week2q1();
        if(a.digits(n) != 5) {
            System.out.println("Please Enter a 5 digit number");
            return;
        }
        String res = "";
        while(n != 0) {
            res = (n%10)  + " "+ res;
            n/=10;
        }
        System.out.println("Resultant = "+res);
    }

}
```

week2q2.java

```java
import java.util.*;
public class week2q2 {

    private float distance;
    private float costpl;
    private float kmph;
    private float parking;
    private float tolls;
    private float transportationCost;
    public float getTotalCost() {
        transportationCost += tolls + parking;
        float fuelReqd = distance/kmph;
        transportationCost += fuelReqd*costpl;
        return transportationCost;
    }
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        week2q2 a = new week2q2();
        System.out.println("Dear User, Please enter the details as required");
        System.out.println("What is the total distance travelled in km a day?");
        a.distance = sc.nextFloat();
        System.out.println("What is the cost of the fuel per litre?");
        a.costpl = sc.nextFloat();
        System.out.println("What is the average km per litre?");
        a.kmph = sc.nextFloat();
        System.out.println("How much do you pay for parking?");
        a.parking = sc.nextFloat();
        System.out.println("How much does the tolls cost?");
        a.tolls = sc.nextFloat();
        System.out.println("Calculating your transportation cost per day....."
        +a.getTotalCost());
    }
}
```

Console

```
Dear User, Please enter the details as required
What is the total distance travelled in km a day?
10
What is the cost of the fuel per litre?
150
What is the average km per litre?
20
How much do you pay for parking?
50
How much does the tolls cost?
60
Calculating your transportation cost per day.....185.0
```

```java
1  import java.util.*;
2
3  public class week2q3 {
4      private int pid;
5      private float quantity;
6      private float retailPrice;
7      private float TotCost;
8
9      public week2q3(int id,float price) {
10         pid = id;
11         quantity = 0;
12         retailPrice = price;
13         TotCost = 0;
14
15     }
16
17     public float getTotPrice() {
18         TotCost = quantity*retailPrice;
19         return TotCost;
20     }
21
22     public static void main(String[] args) {
23         // TODO Auto-generated method stub
24         Scanner sc = new Scanner(System.in);
25         System.out.println("Dear user, please enter the number of products");
26         int n = sc.nextInt();
27         week2q3[] product = new week2q3[n];
28         for(int i=0;i<n;i++) {
29             System.out.println("Enter the pid and retail price of the products");
30
31             int a = sc.nextInt();
32             float b = sc.nextFloat();
33             product[i] = new week2q3(a,b);
34         }
35
36         System.out.println("Time to account for the shipping");
37         //System.out.println("Enter the pid and quantity sold\nEnter 0 to stop");
```

```java
38
39          int id;
40          float q,cost=0;
41          System.out.println("Enter 1 to find the total retail price for specific product");
42          System.out.println("Enter 2 to enter quantity sold for a specific product");
43          System.out.println("Enter 0 to find the total retail prices of all the products sold");
44          id = sc.nextInt();
45
46          while(id != 0) {
47              switch(id) {
48              case 1: System.out.println("Enter the product id");
49                      id = sc.nextInt();
50                      int f=0;
51                      for(int i=0;i<n;i++) {
52                          if(product[i].pid == id) {
53                              System.out.println("total retail price for product "+id+" is "+product[i].getTotPrice());
54                              f=1;
55                              break;
56                          }
57                      }
58                      if(f == 0)
59                      System.out.println("Enter a valid id");
60                      break;
61
62              case 2: System.out.println("Enter the product id and its quantity sold");
63                      id = sc.nextInt();
64                      int f2=0;
65                      for(int i=0;i<n;i++) {
66                          if(product[i].pid == id) {
67                              q = sc.nextFloat();
68                              product[i].quantity += q;
69                              product[i].TotCost = product[i].quantity*product[i].retailPrice;
70                              f2=1;
71                              break;
72                          }
73                      }
74                      if(f2 == 0)
75                      System.out.println("Enter a valid id");
76                      break;
```

```java
73                  }
74                  if(f2 == 0)
75                      System.out.println("Enter a valid id");
76                      break;
77              default: System.out.println("Enter a valid option");
78              }
79              System.out.println("Enter 1 to find the total retail price for specific product");
80              System.out.println("Enter 2 to enter quantity sold for a specific product");
81              System.out.println("Enter 0 to find the total retail prices of all the products sold");
82              id = sc.nextInt();
83          }
84          System.out.println("Calculating final results");
85          for(int i=0;i<n;i++) {
86              cost += product[i].getTotPrice();
87          }
88          System.out.println("The total retail cost of all the products ="+cost);
89      }
90
91  }
```

```
Dear user, please enter the number of products
5
Enter the pid and retail price of the products
1 2.98
Enter the pid and retail price of the products
2 4.5
Enter the pid and retail price of the products
3 9.98
Enter the pid and retail price of the products
4 4.49
Enter the pid and retail price of the products
5 6.87
Time to account for the shipping
Enter 1 to find the total retail price for specific product
Enter 2 to enter quantity sold for a specific product
Enter 0 to find the total retail prices of all the products sold
2
Enter the product id and its quantity sold
2 2
Enter 1 to find the total retail price for specific product
Enter 2 to enter quantity sold for a specific product
Enter 0 to find the total retail prices of all the products sold
2
Enter the product id and its quantity sold
4 3
Enter 1 to find the total retail price for specific product
Enter 2 to enter quantity sold for a specific product
Enter 0 to find the total retail prices of all the products sold
0
Calculating final results
The total retail cost of all the products =22.47
```

```java
import java.util.*;
public class week2q4 {
    private int score;
    private char grade;
    public boolean checkScore() {
        if(score <= 0) {
            System.out.println("Enter a valid score!");
            return true;
        }
        return false;
    }

    public char getScore(){
        if(score>=90) grade = 'A';
        else if(score>=80) grade = 'B';
        else if(score>=70) grade = 'C';
        else if(score>=60) grade = 'D';
        else grade='E';

        return grade;
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        week2q4 a = new week2q4();
        System.out.println("Enter your score");
        a.score = sc.nextInt();
        if(a.checkScore())return;
        System.out.println("A's grade is "+a.getScore());

    }

}
```

Problems @ Javadoc Decla

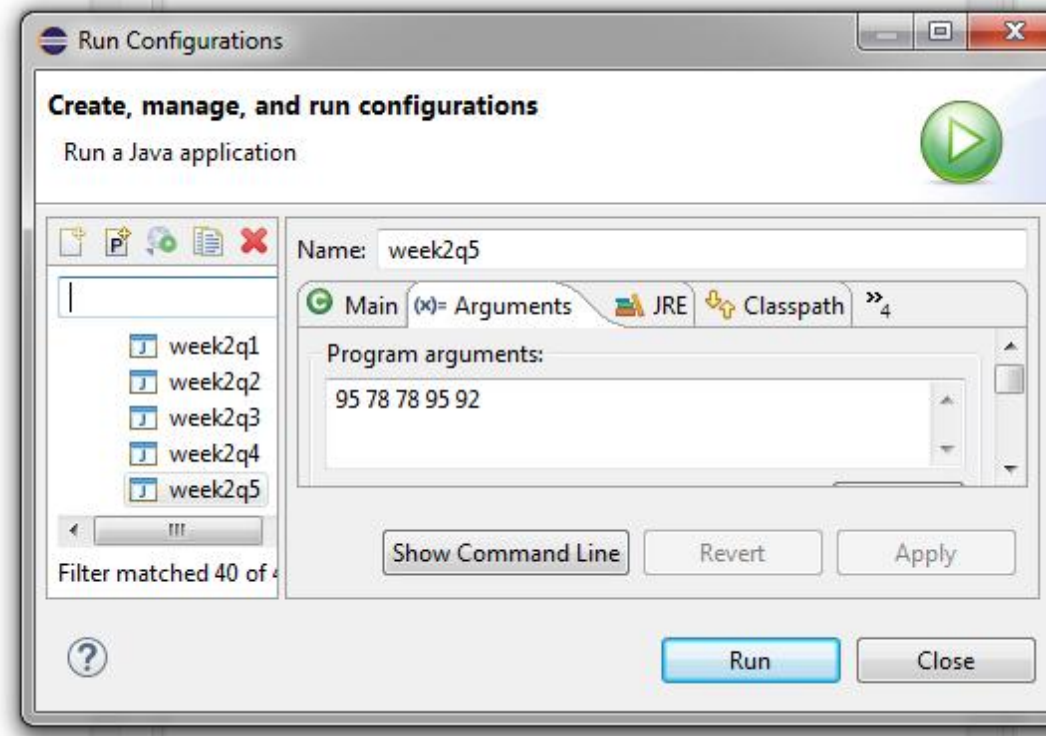<terminated> week2q4 [Java Applicati

Enter your score
98
A's grade is A

```java
import java.util.*;
public class week2q5 {
    private int java;
    private int chash;
    private int c;
    private int cpp;
    private int python;
    private float average;

    public float getAvg() {
        return (java+chash+c+cpp+python)/5;
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        week2q5 a = new week2q5();
        a.java = Integer.parseInt(args[0]);
        a.chash =  Integer.parseInt(args[1]);
        a.c =  Integer.parseInt(args[2]);
        a.cpp =  Integer.parseInt(args[3]);
        a.python =  Integer.parseInt(args[4]);

        System.out.println("Average score obtained = "+a.getAvg());
    }
}
```

week2q5.java

Problems @ Javadoc Declaration Console

<terminated> week2q5 [Java Application] C:\Program Files\Java\jdk1.8.0_144\b
Average score obtained = 87.0

Run Configurations

Create, manage, and run configurations

Run a Java application

Name: week2q5

Main (x)= Arguments JRE Classpath »4

Program arguments:

95 78 78 95 92

week2q1
week2q2
week2q3
week2q4
week2q5

Filter matched 40 of 4

Show Command Line   Revert   Apply

Run   Close

```java
import java.util.*;
public class week2q5 {
    private int java;
    private int chash;
    private int c;
    private int cpp;
    private int python;
    private float average;

    public float getAvg() {
        return (java+chash+c+cpp+python)/5;
    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        week2q5 a = new week2q5();
        a.java = Integer.parseInt(args[0]);
        a.chash =  Integer.parseInt(args[1]);
        a.c =  Integer.parseInt(args[2]);
        a.cpp =  Integer.parseInt(args[3]);
        a.python =  Integer.parseInt(args[4]);
        if(a.python <= 0 || a.cpp <= 0|| a.c<=0 ||a.chash<=0 || a.java<=0) {
            System.out.println("Invalid score entered.Please rectify");
            return;
        }
        System.out.println("Average score obtained = "+a.getAvg());
    }
}
```

Editor tab: week2q5.java

Console panel:

Problems @ Javadoc Declaration Console

<terminated> week2q5 [Java Application] C:\Program Files\Java\jdk1.8.0_144\b

Invalid score entered.Please rectify

Run Configurations dialog:

Create, manage, and run configurations

Run a Java application

Name: week2q5

Main | (x)= Arguments | JRE | Classpath »4

Program arguments:

95 78 78 95 0

week2q5
week3q1
week3q2
week3q3
week3q4

Filter matched 40 of

Show Command Line   Revert   Apply

Run   Close