Course: JAVA Session: Data types and Operators Timestamp: 2021-8-31 10:11:49 Register Number: RA2031241010094

Q. Type Casting problem

Get an integer as input and convert it to float via long data type.

Output Values:

- 1. Integer type
- 2. Long Type
- 3. Float Data type

Source Code

```
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
  int a=sc.nextInt();
  long b=a;
  float c=a;
  System.out.println("Int value "+a);
  System.out.println("Long value "+b);
  System.out.println("Float value "+c);
}
```

Sample Input

5212

Sample Output

Int value 5212 Long value 5212 Float value 5212.0

Result

Thus, Program " Type Casting problem " has been successfully executed

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Q. Date

Write a Java program to convert minutes into a number of years and days.

Test Data
Input the number of minutes: 3456789

Expected Output:

3456789 minutes is approximately 6 years and 210 days
Input:

3456789

output:

210

Source Code

```
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     int a=sc.nextInt();
     int b=a/525600;
     int c=(a%525600)/1440;
     System.out.println(b);
     System.out.println(c);
}
```

Sample Input

3456789

Sample Output

6 210

Result

Thus, Program " Date " has been successfully executed

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Q. Even or Odd using division '/' operator

Program to check number is even or odd by using division "/" operator

Source Code

```
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     int a=sc.nextInt();
     if((a/2)*2==a)
         System.out.println("Even");
     else
         System.out.println("Odd");
}
```

Sample Input

46

Sample Output

Even

Result

Thus, Program " Even or Odd using division '/' operator " has been successfully executed

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Q. Binary sum

Write a Java program to add two binary numbers.

Source Code

```
import java.io.*;
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    String s1=sc.next();
    String s2=sc.next();
    int a=Integer.parseInt(s1,2);
    int b=Integer.parseInt(s2,2);
    System.out.println(Integer.toBinaryString(a+b));
}
```

Sample Input

10 11

Sample Output

101

Result

Thus, Program " Binary sum " has been successfully executed

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Q. conversion from double to float

Java Program to convert from double to float

Source Code

```
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     double a=sc.nextDouble();
     float b=(float)a;
     System.out.println(b);
}
```

Sample Input

12.123456789

Sample Output

12.123457

Result

Thus, Program " conversion from double to float " has been successfully executed

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Q. Conversion from Octal to hexadecimal

Java Program to convert from octal to hexadecimal number

Source Code

```
import java.util.*;
public class TestClass {
  public static void main(String[] args) {
     Scanner sc=new Scanner(System.in);
     String oct,dec;
     int decnum;
     oct=sc.next();
     decnum=Integer.parseInt(oct,8);
     dec=Integer.toHexString(decnum);
     System.out.println(dec);
}
```

Sample Input

15

Sample Output

d

Result

Thus, Program " Conversion from Octal to hexadecimal " has been successfully executed

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Q. Strong Number

```
Java Program to check for strong number Sample Input; inpu
```

Source Code

```
import java.util.*;
public class TestClass {
 public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    int n=sc.nextInt();
    int tot=0;
    int m=n:
    while(n!=0)
     int i=1;
     int fact=1;
     int I=n%10;
     while(i<=I)
      fact=fact*i;
      İ++;
     tot=tot+fact;
     n=n/10;
    if(tot==m)
     System.out.println("Yes");
     System.out.println("No");
```

Sample Input

10

Sample Output

No

Result

Thus, Program " Strong Number " has been successfully executed

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Q. Menu driven calculator

Menu driven calculator

The menu options are as follows:

Addition
 Subtraction
 Division
 Multiplication
 Modulo

The menu driven is followed by number of inputs

Source Code

```
import java.util.*;
public class TestClass {
 public static void main(String[] args) {
 Scanner sc=new Scanner(System.in);
    int ch=sc.nextInt();
    int a=sc.nextInt();
    int b=sc.nextInt();
    switch(ch)
     case 1:
      System.out.println(a+b);
      break;
     case 2:
      System.out.println(a-b);
      break;
     case 3:
      System.out.println(a/b);
      break;
     case 4:
      System.out.println(a*b);
      break;
     case 5:
      System.out.println(a%b);
     default:
      System.out.println("Invalid choice");
```

Sample Input

1 12 25

Sample Output

37

Result

Thus, Program " Menu driven calculator " has been successfully executed