IS 2104

Practical 5

Java Operators and Expressions

18020275

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1.

```java
import java.util.Scanner;
public class Odd_or_Even{
    public static void main(String[] args){

        int numb;
        int i;
        int Even= 0;
        int Odd = 0;

        Scanner input=new Scanner(System.in);
        System.out.print("Enter the number of inputs: ");
        numb=input.nextInt();


        for(i = 1;i<=numb;i++){
            Scanner number=new Scanner(System.in);
            System.out.println("Enter the input number"  +i);

            int num=number.nextInt();
            if(num%2 == 0){
                Even++;
            }else{
                Odd++;
            }
        }
        System.out.println("Number of Even Numbers: " + Even);
        System.out.println("Number of Odd Numbers: " + Odd);
    }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.17134.1069]
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac Odd_or_Even.java

C:\Users\Hansika\Desktop>java Odd_or_Even
Enter the number of inputs: 5
Enter the input number1
231
Enter the input number2
245
Enter the input number3
115
Enter the input number4
410
Enter the input number5
259
Number of Even Numbers: 1
Number of Odd Numbers: 4

C:\Users\Hansika\Desktop>
```
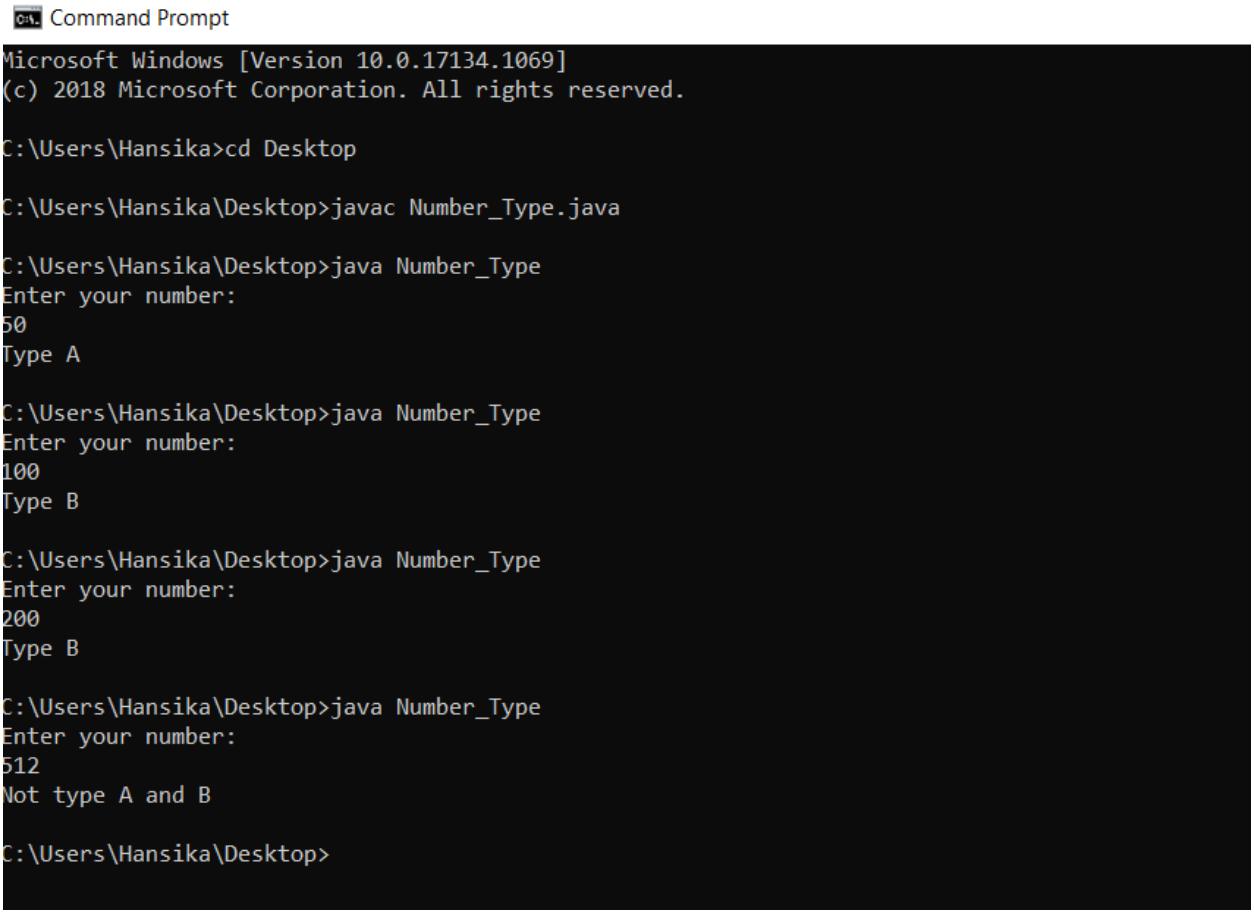

2.

```java
import java.util.Scanner;
public class Number_Type{
    public static void main(String[] args){
        int num;
        Scanner input=new Scanner(System.in);
        System.out.println("Enter your number: ");
        num=input.nextInt();

        if(num%25==0 && num%100!=0){
            System.out.println("Type A");
            }
        else if(num%4==0 && num%128!=0){
            System.out.println("Type B");
            }
        else{
        System.out.println("Not type A and B");

        }
    }
}
```


Command Prompt
Microsoft Windows [Version 10.0.17134.1069]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\Hansika>cd Desktop
C:\Users\Hansika\Desktop>javac Number_Type.java
C:\Users\Hansika\Desktop>java Number_Type
Enter your number:
50
Type A
C:\Users\Hansika\Desktop>java Number_Type
Enter your number:
100
Type B
C:\Users\Hansika\Desktop>java Number_Type
Enter your number:
200
Type B
C:\Users\Hansika\Desktop>java Number_Type
Enter your number:
512
Not type A and B
C:\Users\Hansika\Desktop>

3.

```
import java.util.Scanner;
public class TimesTable{
    public static void main(String[] args){

        int num;
        int i=0;
        int j= 0;

        Scanner input=new Scanner(System.in);
        System.out.println("Enter your number: ");
        num=input.nextInt();

        for(j=1;j<=10;j++)
        {
            ++i;
            int answer=num*i;
            System.out.println(num + "*" + j +"=" +answer);

        }
    }
}
```

```
C:\Users\Hansika\Desktop>javac TimesTable.java

C:\Users\Hansika\Desktop>java TimesTable
Enter your number:
1
1*1=1
1*2=2
1*3=3
1*4=4
1*5=5
1*6=6
1*7=7
1*8=8
1*9=9
1*10=10

C:\Users\Hansika\Desktop>java TimesTable
Enter your number:
5
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
```

```
C:\Users\Hansika\Desktop>java TimesTable
Enter your number:
7
7*1=7
7*2=14
7*3=21
7*4=28
7*5=35
7*6=42
7*7=49
7*8=56
7*9=63
7*10=70

C:\Users\Hansika\Desktop>java TimesTable
Enter your number:
8
8*1=8
8*2=16
8*3=24
8*4=32
8*5=40
8*6=48
8*7=56
8*8=64
8*9=72
8*10=80
```

```
C:\Users\Hansika\Desktop>java TimesTable
Enter your number:
10
10*1=10
10*2=20
10*3=30
10*4=40
10*5=50
10*6=60
10*7=70
10*8=80
10*9=90
10*10=100

C:\Users\Hansika\Desktop>
```

4.

```java
import java.util.Scanner;
public class Grade{
    public static void main(String[] args) {
        int marks;
        Scanner input=new Scanner(System.in);
        System.out.println("Enter your mark: ");
        marks=input.nextInt();

        String grade=marks<50 ? "F"  :  (marks>=75 ? "A" : "B" );
        System.out.println(grade);
    }
}
```

```
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C:\Users\Hansika>cd Desktop

C:\Users\Hansika\Desktop>javac Grade.java

C:\Users\Hansika\Desktop>java Grade
Enter your mark:
10
F

C:\Users\Hansika\Desktop>java Grade
Enter your mark:
50
B

C:\Users\Hansika\Desktop>java Grade
Enter your mark:
60
B

C:\Users\Hansika\Desktop>java Grade
Enter your mark:
75
A

C:\Users\Hansika\Desktop>java Grade
Enter your mark:
90
A

C:\Users\Hansika\Desktop>
```