JAVA_Assignment20

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CODE:

```
package Exception;
import java.io.IOException;
import java.util.Scanner;
import java.lang.String;

class Invalid_division_Exception extends Exception
{
	Invalid_division_Exception(String s)
	{
		super(s);
	}
}
class Invalid_subtraction_Exception extends Exception
{
	Invalid_subtraction_Exception(String s)
	{
		super(s);
	}
}

public class My_exceptions
{
	static void Division_operation(int div,int divi) throws
Invalid_division_Exception
	{
		if(div==0 || div>divi)
		{
			throw new Invalid_division_Exception("Division is not
accepted.");
		}
		else
		{
			System.out.println("Answer is"+(divi/div));
		}
	}

	void Subtract_operation(int a,int b) throws Invalid_subtraction_Exception
	{
		if(b>a)
		{
			throw new Invalid_subtraction_Exception ("Negative answer is
not acceptable");
		}
		else
		{
			System.out.println("Subtraction is "+(a-b));
		}
	}
```

```
	public static void main(String[] args)
	{
		Scanner sc=new Scanner(System.in);
		int choice,k=1;
		while(k!=0)
		{
			System.out.println("Enter your choice:");
			System.out.println("1.Division\n2.Subtraction");
			choice=sc.nextInt();
			switch(choice)
			{
			case 1:
				System.out.println("Enter the value of divisor:");
				int div=sc.nextInt();
				System.out.println("Enter the value of divident:");
				int divi=sc.nextInt();
				My_exceptions e1 = new My_exceptions();
				try
				{
					Division_operation(div, divi);
				}
				catch(Invalid_division_Exception e)
				{
					System.out.println("Here is exception "+e);
				}
				break;

			case 2:
				System.out.println("Enter the value of First
integer:");
				int a=sc.nextInt();
				System.out.println("Enter the value of Second
integer:");
				int b=sc.nextInt();
				My_exceptions e2 = new My_exceptions();
				try
				{
					e2.Subtract_operation(a, b);
				}
				catch(Invalid_subtraction_Exception e)
				{
					System.out.println("Here is exception "+e);
				}
				break;
			}
			System.out.println("Want to continue press 1 :");
			k=sc.nextInt();
		}
	}
}
```

OUTPUT:

```
Enter your choice:
1.Division
2.Subtraction
1
Enter the value of divisor:
0
Enter the value of divident:
3
Here is exception Exception.Invalid division Exception: Division is not accepted.
Enter your choice:
1.Division
2.Subtraction
2
Enter the value of First integer:
4
Enter the value of Second integer:
7
Here is exception Exception.Invalid subtraction Exception: Negative answer is not acceptable
Enter your choice:
1.Division
2.Subtraction
```