

Task 3: Basic Arithmetic Calculator using Java

Code:

```
import java.util.*;

public class Calculator{

    public static void main(String []args){

        int a,b,choice;

        float result=0;

        /*scanner class object to read values*/

        Scanner buf=new Scanner(System.in);

        System.out.print("Enter first number: ");

        a=buf.nextInt();

        System.out.print("Enter second number: ");

        b=buf.nextInt();

        System.out.print("\n1: Addition.\n2: Subtraction.");

        System.out.print("\n3: Multiplication.\n4: Divide.");

        System.out.print("\n5: Remainder.\n6: Exit.");

        System.out.print("\nEnter your choice: ");

        choice=buf.nextInt();
```

```

switch(choice)
{
    case 1:
        result=(a+b); break;
    case 2:
        result=(a-b); break;
    case 3:
        result=(a*b); break;
    case 4:
        result=(float)((float)a/(float)b); break;
    case 5:
        result=(a%b); break;
    default:
        System.out.println("An Invalid Choice!!!\n");
}

if(choice>=1 && choice<=5)

    System.out.println("Result is: " + result);

}
}

```

Output:

Output - calculator (run)

```
run:
Enter first number: 90
Enter second number: 20

1: Addition.
2: Subtraction.
3: Multiplication.
4: Divide.
5: Remainder.
6: Exit.
Enter your choice: 1
Result is: 110.0
BUILD SUCCESSFUL (total time: 7 seconds)
|
```

:: Output - calculator (run)

```
run:
Enter first number: 70
Enter second number: 30

1: Addition.
2: Subtraction.
3: Multiplication.
4: Divide.
5: Remainder.
6: Exit.
Enter your choice: 2
Result is: 40.0
BUILD SUCCESSFUL (total time: 6 seconds)
|
```

```
Output - calculator (run)

run:
Enter first number: 90
Enter second number: 34

1: Addition.
2: Subtraction.
3: Multiplication.
4: Divide.
5: Remainder.
6: Exit.
Enter your choice: 3
Result is: 3060.0
BUILD SUCCESSFUL (total time: 5 seconds)
|
```

```
Output - calculator (run)

run:
Enter first number: 90
Enter second number: 71

1: Addition.
2: Subtraction.
3: Multiplication.
4: Divide.
5: Remainder.
6: Exit.
Enter your choice: 4
Result is: 1.2676057
BUILD SUCCESSFUL (total time: 6 seconds)
|
```

```
Output - calculator (run)

run:
Enter first number: 90
Enter second number: 72

1: Addition.
2: Subtraction.
3: Multiplication.
4: Divide.
5: Remainder.
6: Exit.
Enter your choice: 5
Result is: 18.0
BUILD SUCCESSFUL (total time: 5 seconds)
```

