



FEU INSTITUTE OF TECHNOLOGY

INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

ACTIVITY 05: FUNCTION

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Outputs:

- Main Menu

```
=====
===== MATHEMATICAL OPERATIONS MENU =====
[D]. Divide
[E]. Exponentiation
[R]. Remainder
[F]. Summation
[X]. Exit
=====
Enter your choice: █
```

- Division Option:

```
=====
Enter your choice: d
-----
----- DIVISION -----
Enter First Number: 5
Enter Second Number: 3
Answer: 1.67
=====
```

- Invalid Input (second number = 0)

```
=====
Enter your choice: d
-----
----- DIVISION -----
Enter First Number: 8
Enter Second Number: 0
-----
Try Again! The second number cannot be zero.
=====
```

- Exponentiation Option:

```
=====
Enter your choice: e
-----
----- EXPONENTIATION -----
Enter Base Number: 8
Enter Exponent Number: 3
Answer: 512
=====
```

- Remainder Option:

```
=====
Enter your choice: r
-----
----- REMAINDER -----
Enter First Number: 20
Enter Second Number: 7
Answer: 6
=====
```

- Invalid Input (second number = 0)

```
=====
Enter your choice: R
-----
----- REMAINDER -----
Enter First Number: 78
Enter Second Number: 0
-----
Try Again! The second number cannot be zero.
=====
```

- **Summation Option:**

```
=====
Enter your choice: f
-----
----- SUMMATION -----
Enter First Number: 4
Enter Second Number: 8
Answer: 30
=====
```

- **Invalid Input (first number > second number)**

```
=====
Enter your choice: F
-----
----- SUMMATION -----
Enter First Number: 10
Enter Second Number: 6
-----
The second number must be greater than the first number.
=====
```

- **Exit**

```
=====
Enter your choice: X
-----
Thank you! Have a nice day.
-----
```

- **Invalid Menu Choice**

```
=====
===== MATHEMATICAL OPERATIONS MENU =====
[D]. Divide
[E]. Exponentiation
[R]. Remainder
[F]. Summation
[X]. Exit
=====
Enter your choice: 1
-----
Invalid Choice. Try Again!
=====
```