

# For Loop Example

2023-T1 CSD 1133 FSDM Group1

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# Q1. Investment Simulator for Banker

- Input

- Invest amount : 10000
- Interest rate : 5%
- Invest year : 10

- Output

- 1: 10500
- 2: 11025
- .
- .
- 10: ??????

For i = 1 to year

Set interest = balance \* rate

Set balance = balance + interest

Display i, “: “, balance

End For

## Q2. Multiplication table

- Input

- Number : 7

- Output

- $7 \times 1 = 7$
- $7 \times 2 = 14$
- .
- .
- .
- $7 \times 9 = 63$

For i = 1 to 9

Set prod = number \* i

Display i, " x ", number, " = ", prod

End For



## Q3. Full Multiplication table (Nested Loop)

- Input

- Start : 3
- End : 7

- Output

- $3 \times 1 = 3$
- .
- $3 \times 9 = 27$
- $4 \times 1 = 1$
- .
- .
- $7 \times 1 = 7$
- .
- $7 \times 9 = 63$

```
For i = start to end
```

```
    For j = 1 to 9
```

```
        Set prod = i * j
```

```
        Display i, " x ", j, " = ", prod
```

```
    End For
```

```
End For
```

## Q4. Factors

- Input
  - Number : 12
- Output
  - 1
  - 2
  - 3
  - 4
  - 6
  - 12

```
For i = 1 to number
    If number % i == 0 Then
        Display i
    End If
End For
```

Thank You