

# BASIC LANGUAGE

LOOPS



```
FOR J = 1 TO 8 STEP 2
  PRINT "HELLO WORLD"
NEXT J
```

J = 1, 3, 5, 7

```
HELLO WORLD
HELLO WORLD
HELLO WORLD
HELLO WORLD
```

```
FOR J = 1 TO 4
  FOR K = 1 TO 2
    PRINT "HELLO WORLD"
  NEXT K
NEXT J
```

J = 1, K = 1

HELLO WORLD

J = 1, K = 2

HELLO WORLD

J = 2, K = 1

HELLO WORLD

J = 2, K = 2

HELLO WORLD

J = 3, K = 1

HELLO WORLD

J = 3, K = 2

HELLO WORLD

J = 4, K = 1

HELLO WORLD

J = 4, K = 2

HELLO WORLD

```
FOR J = 1 TO 4
  FOR K = 1 TO 2
    PRINT J*K
  NEXT K
NEXT J
```

J = 1, K = 1	1
J = 1, K = 2	2
J = 2, K = 1	2
J = 2, K = 2	4
J = 3, K = 1	3
J = 3, K = 2	6
J = 4, K = 1	4
J = 4, K = 2	8

```
FOR J = 1 TO 4
  FOR K = 1 TO J
    IF J/K = INT(J/K) THEN
      PRINT "INT"
    ELSE PRINT "FRACTION"
  NEXT K
NEXT J
```

J = 1, K = 1	INT
J = 2, K = 1	INT
J = 2, K = 2	INT
J = 3, K = 1	INT
J = 3, K = 2	FRACTION
J = 3, K = 3	INT
J = 4, K = 1	INT
J = 4, K = 2	INT
J = 4, K = 3	FRACTION
J = 4, K = 4	INT