```
a. 2^-30
```

```
PS C:\Users\ythua\vscode\IEEE754> c:; cd
 iles\lib\python\debugpy\launcher' '52498'
 Enter number: 2^-30
 IEEE-754: 0 01100001 000000000000000000000000
 PS C:\Users\ythua\vscode\IEEE754>
b. 64.015625
iles\lib\python\debugpy\launcher' '52514'
```

```
Enter number: 64.015625
IEEE-754: 0 10000101 00000000001000000000000
PS C:\Users\ythua\vscode\IEEE754>
```

## c. -8 x 2<sup>^</sup>-24

```
iles\lib\python\debugpy\launcher' '52523'
Enter number: -8 x 2^-24
PS C:\Users\vthua\vscode\IEEE754>
```

## d. 0.5

```
iles\lib\python\debugpy\launcher' '52537'
Enter number: 0.5
IEEE-754: 0 01111110 0000000000000000000000000
PS C:\Users\ythua\vscode\IEEE754>
```

## e. 42.424242

```
PS C:\Users\vthua\vscode\IEEE754> c:; cd
iles\lib\python\debugpy\launcher' '52546
Enter number: 42.424242
IEEE-754: 0 10000100 01010011011001001101100
PS C.\lisars\vthua\vscode\TFFF754\
```

f. 76.234567 x 10<sup>-15</sup>

```
PS C:\Users\ythua\vscode\IEEE754> c:; cd
 iles\lib\python\debugpy\launcher' '52556'
 Enter number: 76.234567 x 10^-15
 IEEE-754: 0 01010011 01010111010101000111100
 PS C:\Users\ythua\vscode\IEEE754>
a. 1.4345678
 PS C:\Users\ythua\vscode\IEEE754> c:; cd
 iles\lib\python\debugpy\launcher' '52570'
 Enter number: 1.4345678
 IEEE-754: 0 01111111 011011110011111111101011
 PS C:\Users\ythua\vscode\IEEE754>
h. 3.141592653589793238462643383279502884
 PS C:\Users\ythua\vscode\IEEE754>
 iles\lib\python\debugpy\launcher' '52579' '--' 'c:\Us
 Enter number: 3.141592653589793238462643383279502884
 IEEE-754: 0 10000000 100100100001111111011011
 PS C:\Users\ythua\vscode\IEEE754>
i. 3.14
  PS C:\Users\ythua\vscode\IEEE754> c:; cd
  iles\lib\python\debugpy\launcher' '52589'
  Enter number: 3.14
  IEEE-754: 0 10000000 10010001111010111000011
  PS C:\Users\vthua\vscode\TFFF754>
i. 17/31
 PS C:\Users\vthua\vscode\IEEE754> c:; cd 'c:
 iles\lib\python\debugpy\launcher' '52599'
 Enter number: 17/31
 IEEE-754: 0 01111110 0001100011000110001
```