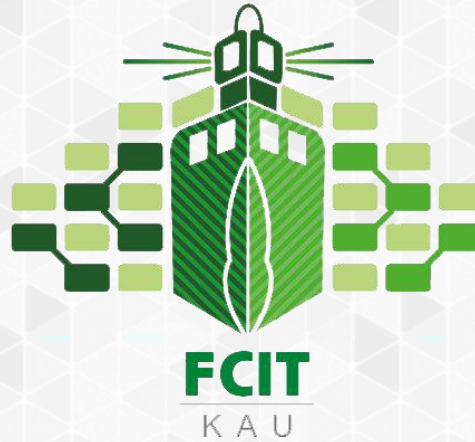


**FACULTY OF COMPUTING
& INFORMATION TECHNOLOGY**

KING ABDULAZIZ UNIVERSITY



**كلية الحاسبات
وتقنية المعلومات**

جامعة الملك عبدالعزيز

Sample Questions

Chapter 2 (MCQ)

CPIT 110 (Problem-Solving and Programming)



تنبيه!

- هذه الأسئلة عبارة عن عينة فقط توضح طريقة أسئلة اختبارات مقرر البرمجة وحل المشكلات (CPIT-110).
- هذه الأسئلة لا يُعتمد عليها فقط للمذاكرة.
- قد لا تشمل هذه الأسئلة جميع المواضيع المقررة للاختبار.
- هذه الأسئلة مناسبة للمراجعة بعد الانتهاء من مذاكرة وتطبيق المواضيع المقررة للاختبار.
- حلول الأسئلة مرفقة نهاية صفحات هذا الملف.

Question

#1

What function do you use to read a string?

- a) `input("Enter a string")`
- b) `eval(input("Enter a string"))`
- c) `enter("Enter a string")`
- d) `eval(enter("Enter a string"))`

Question #2

What is the result of `eval("1 + 3 * 2")`?

a) `"1 + 3 * 2"`

b) 7

c) 8

d) `"1 + 6"`

Question

#3

If you enter **1 2 3** in **three separate lines**, when you run this program, what will be displayed?

```
print("Enter three numbers: ")
number1 = eval(input())
number2 = eval(input())
number3 = eval(input())

# Compute average
average = (number1 + number2 + number3) / 3

# Display result
print(average)
```

- a) 1.0
- b) 2.0
- c) 3.0
- d) 4.0

Question

#4

If you enter **1 2 3** in **one line**, when you run this program, what will be displayed?

```
print("Enter three numbers: ")
number1 = eval(input())
number2 = eval(input())
number3 = eval(input())

# Compute average
average = (number1 + number2 + number3) / 3

# Display result
print(average)
```

- a) The program runs correctly and displays 1.0
- b) The program runs correctly and displays 2.0
- c) The program runs correctly and displays 3.0
- d) The program will have a runtime error on the input.

Question

#5

You can place the line continuation symbol `__` at the end of a line to tell the interpreter that the statement is continued on the next line.

a) `/`

b) `\`

c) `#`

d) `&`

Question

#6

Which of the following is a valid identifier?

a) \$343

b) mile

c) 9X

d) 8+9

Question

#7

If you enter 1, 2, 3, in one line, when you run this program, what will be displayed?

```
number1, number2, number3 = eval(input("Enter three  
                                     numbers: "))  
  
# Compute average  
average = (number1 + number2 + number3) / 3  
  
# Display result  
print(average)
```

- a) 1.0
- b) 2.0
- c) 3.0
- d) 4.0

Question

#8

What will be displayed by the following code?

```
x = 1
x = 2 * x + 1
print(x)
```

- a) 0
- b) 1
- c) 2
- d) 3

Question

#9

What will be displayed by the following code?

```
x = 1  
x = x + 2.5  
print(x)
```

- a) 1
- b) 2
- c) 3
- d) 3.5

Question

#10

What will be displayed by the following code?

```
x, y = 1, 2  
x, y = y, x  
print(x, y)
```

a) 1 1

b) 2 2

c) 1 2

d) 2 1

Question

#11

To following code reads two number. Which of the following is the correct input for the code?

```
x, y = eval(input("Enter two numbers: "))
```

a) 1 2

b) "1 2"

c) 1, 2

d) 1, 2,

Question #12

What is the result of $3 / 2$?

- a) 1
- b) 1.5
- c) 2
- d) 3

Question

#13

What is the result of `3 // 2`?

- a) 1
- b) 1.5
- c) 2
- d) 3

Question

#14

Which of the following expressions will yield 0.5?

a) `1 / 2`

b) `1 // 2`

c) `1.0 // 2`

d) `2 / 2`

Question

#15

Which of the following expression results in a value 1?

a) $2 \% 1$

b) $15 \% 4$

c) $25 \% 5$

d) $3 \% 2$

Question #16

25 % 1 is _____

- a) 1
- b) 2
- c) 3
- d) 0

Question #17

24 % 5 is _____

- a) 1
- b) 2
- c) 4
- d) 0

Question #18

`2 ** 3` evaluates to _____.

a) 9

b) 8

c) 9.0

d) 8.0

Question #19

`2 ** 3.0` evaluates to _____.

a) 9

b) 8

c) 9.0

d) 8.0

Question #20

$2 * 3 ** 2$ evaluates to _____.

a) 36

b) 18

c) 12

d) 81

Question

#21

What is y displayed in the following code?

```
x = 1
y = x = x + 1
print("y is", y)
```

- a) y is 0.
- b) y is 1 because x is assigned to y first.
- c) y is 2 because x + 1 is assigned to x and then x is assigned to y.
- d) The program has a compile error since x is redeclared in the statement `int y = x = x + 1`.

Question

#22

What is the result of evaluating $2 + 2 ** 3 / 2$?

- a) 4
- b) 6
- c) 4.0
- d) 6.0

Question

#23

What is the value of i printed?

```
j = i = 1  
i += j + j * 5  
print("What is i?", i)
```

- a) 1
- b) 5
- c) 6
- d) 7

Question

#24

What is x after the following statements?

```
x = 1
```

```
x *= x + 1
```

a) x is 1

b) x is 2

c) x is 3

d) x is 4

Question

#25

What is x after the following statements?

```
x = 2  
y = 1  
x *= y + 1
```

- a) x is 1
- b) x is 2
- c) x is 3
- d) x is 4

Question #26

To add a value 1 to variable x, you write

a) $1 + x = x$

b) $x += 1$

c) $x := 1$

d) $x =+ 1$

Question

#27

Which of the following statements are the same?

(A) $x -= x + 4$

(B) $x = x + 4 - x$

(C) $x = x - (x + 4)$

a) (A) and (B) are the same

b) (A) and (C) are the same

c) (B) and (C) are the same

d) (A), (B), and (C) are the same

Question

#28

Suppose x is 1. What is x after `x += 2`?

- a) 1
- b) 2
- c) 3
- d) 4

Question

#29

Suppose x is 1. What is x after $x -= 1$?

- a) 0
- b) 1
- c) -1
- d) 2

Question

#30

What is x after the following statements?

```
x = 1  
y = 2  
x *= y + 1
```

- a) x is 1
- b) x is 2
- c) x is 3
- d) x is 4

Question

#31

Which of the following functions return 4.

- a) `int(3.4)`
- b) `int(3.9)`
- c) `round(3.4)`
- d) `round(3.9)`

Question

#32

Which of the following functions cause an error?

- a) `int("034")`
- b) `eval("034")`
- c) `int(3.4)`
- d) `eval("3.4")`

Solutions

Question #	Correct Answer
1	A
2	B
3	B
4	D
5	B
6	B
7	B
8	D
9	D
10	D

Question #	Correct Answer
11	C
12	B
13	A
14	A
15	D
16	D
17	C
18	B
19	D
20	B

Solutions

Question #	Correct Answer
21	C
22	D
23	D
24	B
25	D
26	B

Question #	Correct Answer
27	B
28	C
29	A
30	C
31	D
32	B