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Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2021-09-08, 23:59 IST.

Assignment submitted on 2021-09-07, 00:38 IST

1) If PYTHON is SVWERK, what is COMPUTING? ***1 point***

- (●) FLPMXQLKJ
- ( ) FRPSXWLQJ
- ( ) Insufficient data
- ( ) ZLJMSQFKD

Yes, the answer is correct.
Score: 1

Accepted Answers:
FLPMXQLKJ

2) What operation will the following program do? ***1 point***

```
import string
s="hello"
n=""
for i in range(len(s)):
    c=int(ord(s[i])-26)
    n=n+chr(c)
print(n)
```

- (●) Shift the letter by 6 to the right and then print the capital of that letter.
- ( ) Shift the letter by 6 to the left and then print the capital of that letter.
- ( ) Shift the letter by 6 to the right and then print the small letter.
- ( ) Shift the letter by 6 to the left and then print the small letter.

Yes, the answer is correct.
Score: 1

Accepted Answers:
Shift the letter by 6 to the right and then print the capital of that letter.

3) What is the output of the following program? ***1 point***

```
import string
s="hello, and welcome to joy of computing course"
if(s.capitalize()==s[0:1].upper()+s[1:len(s)]):
    print("True")
else:
    print("False")
```

- ( ) False
- (●) True

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

4) What will be the output of the following program? ***1 point***

```
import string
s="hello, and welcome to joy of computing course"
print(s[::2].replace("e","l"))
```

- ( ) ll,adwlolt o fcmuigcus
- (●) hlo n lcm ojyo optn orl
- ( ) hello, and welcome to jy of computing course
- ( ) It will show an error

Yes, the answer is correct.
Score: 1
Accepted Answers:
hlo n lcm ojyo optn orl

5) The array object in NumPy is called ndarray and NumPy is faster than Lists. State whether the above statement is true or false. ***1 point***

- (●) True
- ( ) False

Yes, the answer is correct.
Score: 1
Accepted Answers:
True

6) What is the output of the following program? (Assuming that k and n are any 2 positive numbers) ***1 point***

```
def fun(k,n):
    if(n==0):
        return 1
    else:
        return(k*fun(k,n-1))

print(fun(k,n))
```

- ( ) It will find the value of k raised to the power of k
- ( ) It will find the value of n raised to the power of k
- (●) It will find the value of k raised to the power of n
- ( ) It will find the value of n raised to the power of n

Yes, the answer is correct.
Score: 1
Accepted Answers:
It will find the value of k raised to the power of n

7) The output of the following program is as follows ***1 point***

[[1 4 13]
[2 2 9]
[3 3 6]]

What should be written in the empty blank in the following program to get the above desired output?

```
import numpy
arr=numpy.array([[1,2,3],[4,2,3,],[13,9,6]])
print(____________)
```

- ( ) numpy.transpose(arr)

- arr.transpose( )
- Either a or b options can be used
- arr.reverse( )

Yes, the answer is correct.
Score: 1

Accepted Answers:
Either a or b options can be used

8) Which of the following programs will calculate the factorial of a given number? ***1 point***

```
def fact(n):
    if(n==0):
        return 1
    else:
        return(n*fact(n+1))

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n))
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,0))
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))
```

- None of the following

Yes, the answer is correct.
Score: 1

Accepted Answers:

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))
```

OR

None of the following

9) In tic tac toe game, if player 1 starts the game by marking 'X' in the center of the matrix, then he has more chances of winning. State whether the above given statement is true or false. ***1 point***

- (•) True
- ( ) False

Yes, the answer is correct.
Score: 1

Accepted Answers:
True

10) Recursive programs are faster than the iterative programs. State whether the following statement is true or false. ***1 point***

- ( ) True
- (•) False

Yes, the answer is correct.
Score: 1

Accepted Answers:
False