Student Result

Student Name: SAKSHI VIDYASAGAR SURYAWANSHI

Exam: Python , Django , Angular Programming

Score: 26.0/45.0

Percentage: 57.78%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	Which type of Programming does Python support?	structured programming	all of the mentioned
2	What does the @staticmethod decorator do in a Python class?	Defines a method that doesn't receive an implicit first argument	Defines a method that doesn't receive an implicit first argument
3	In Django, which method is used to create database tables based on your models?	manage.py makemigrations and manage.py migrate	manage.py makemigrations and manage.py migrate

4	What will be the output of the following Python code? def create_multipliers(): return [lambda x: i * x for i in range(4)] functions = create_multipliers() results = [f(2) for f in functions] print(results)	[6, 6, 6, 6]	[6, 6, 6, 6]
5	What will be the output of the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x + i funcs.append(f) return funcs funcs = create_funcs() print([f(10) for f in funcs])	[10, 11, 12]	[10, 11, 12]

6	What will	Calling	Calling
	be the	add (2	add (3
	output of	times),	times),
	the	then 10	then 10
	following		
	Python		
	code?		
	def		
	logger(func):		
	def		
	wrapper(*args,		
	**kwargs):		
	print(f"Calling		
	{funcname}}")		
	return		
	func(*args,		
	**kwargs)		
	return		
	wrapper		
	@logger		
	def		
	add(x, y):		
	return x		
	+ y result		
	=		
	add(add(1,		
	2),		
	add(3,		
	4))		
	print(result)		

7	
Output of the Following Code? class Weird: definit(self, x): self.x = x defeq(self, other): return self.x == other.x a = Weird(10)	
the Following Code? class Weird: definit(self,	
Following Code? class Weird: definit(self, x): self.x = x defeq(self, other): return self.x == other.x a = Weird(10)	
Code? class Weird: definit(self, x): self.x = x defeq(self, other): return self.x == other.x a = Weird(10)	
class	
<pre>Weird: def init(self, x): self.x = x def eq(self, other): return self.x == other.x a = Weird(10)</pre>	
<pre>def init(self, x): self.x = x def eq(self, other): return self.x == other.x a = Weird(10)</pre>	
init(self, x): self.x = x defeq(self, other): return self.x == other.x a = Weird(10)	
x): self.x = x defeq(self, other): return self.x == other.x a = Weird(10)	
= x defeq(self, other): return self.x == other.x a = Weird(10)	
eq(self, other): return self.x == other.x a = Weird(10)	
other): return self.x == other.x a = Weird(10)	
return self.x == other.x a = Weird(10)	
self.x == other.x a = Weird(10)	
other.x a = Weird(10)	
= Weird(10)	
Weird(10)	
b -	
U =	
Weird(10)	
d = {a:	
"Hello",	
b:	
"World"}	
print(len(d),	
d[a])	

8	What will	5, 3, 2	5, 3, 2
	be the		
	Output of		
	the		
	Following		
	Code?		
	def		
	tricky(n,		
	cache={}):		
	if n in		
	cache:		
	return		
	cache[n]		
	if n <= 1:		
	return 1		
	cache[n]		
	=		
	tricky(n-1)		
	+		
	tricky(n-2)		
	return		
	cache[n]		
	print(tricky(4))		
	print(tricky(3))		
	print(tricky(2))		
		I .	

9	What will	1, 2,	1, 2,
	be the	Returned:	Returned:
	Output	3	3
	Of the		
	Following		
	Code?		
	def		
	subgen():		
	yield 1		
	yield 2		
	return 3		
	def		
	main():		
	result =		
	yield		
	from		
	subgen()		
	print("Returned:",		
	result) g		
	= main()		
	for val in		
	g:		
	print(val)		
	. , ,		

10	What will	2	2
	be the		
	Output of		
	the		
	Following		
	Code?		
	class		
	Key: def		
	init(self,		
	val):		
	self.val =		
	val def		
	eq(self,		
	other):		
	return		
	self.val		
	==		
	other.val		
	k1 =		
	Key(1)		
	k2 =		
	Key(1) d		
	= {k1: 'a',		
	k2: 'b'}		
	print(len(d))		

11	What will	dec1,	dec1,
	be the	dec2,	dec2,
	Output of	Hello	Hello
	the		
	Following		
	Code?		
	def		
	dec1(func):		
	def		
	wrapper(*args):		
	print("dec1")		
	return		
	func(*args)		
	return		
	wrapper		
	def		
	dec2(func):		
	def		
	wrapper(*args):		
	print("dec2")		
	return		
	func(*args)		
	return		
	wrapper		
	@dec1		
	@dec2		
	def		
	hello():		
	print("Hello")		
	hello()		

12	What will be the Output of the Following Code? def sub(): yield 1 yield 2 return "Done" def main(): x = yield from sub() print("Subgen returned:", x) g = main() for i in g: print(i)	1 2 Subgen returned: Done	1 2 Subgen returned: Done
13	What will be the Output of the Following Code? ef func(a, L=[]): L.append(a) return L print(func(1)) print(func(2)) print(func(3))	Error	[1], [1, 2], [1, 2, 3]

14	Which of the following operations will NOT trigger model.save() or signals (pre_save/post_save)?	Updating using model instance and save()	MyModel.objects.bu
15	What will be printed? Component: @Component({ selector: 'app-test', template: '{{ value }}' }) class TestComponent implements OnInit { value = 'initial'; ngOnInit() { setTimeout(() => this.value = 'changed', 0); } }	Initial	Initial
16	What does providing a service in the component (instead of module) do?	Creates a new service instance per component	Creates a new service instance per component

17	n a Django + Angular app using REST API, what is a good reason to disable CSRF middleware?	Angular uses JWT Auth and doesn't send CSRF tokens	Angular uses JWT Auth and doesn't send CSRF tokens
18	If an Angular frontend calls a Django API and receives a CORS error, what should be done?	Configure CORS_ORIGIN_AI in Django	Configure _LOW_ALCORS_ORIGIN_ALLOV in Django
19	What will be the Output of the Following Code? stack = [] for i in range(3): stack.append(i) for i in range(2): stack.pop() print(stack)	[1]	[0]

20	What will be the Output of the Following Code? s = "((())" stack = [] for ch in s: if ch == '(': stack.append(ch) else: if stack: stack.pop() print(len(stack))	Extra '(' remaining	Extra '(' remaining
21	During project setup, if ng serve fails with the error "Local workspace file ('angular.json') could not be found", what is the likely issue?	Problems with node_modules	Problems with node_modules
22	In Angular, which file is used to define the set of modules, components, and services?	app.module.ts	app.module.ts

23	What will be the Output of the Following Code? def f(x, l=[]): for i in range(x): l.append(i*i) return l print(f(3)) print(f(2))	[0, 1, 4, 0, 1]	[0, 1, 4, 0, 1]
24	In Angular (≥2+), what is the difference between NgModule.imports and NgModule.exports?	imports makes things available to outside modules, exports is for internal use	imports declares dependencies the module needs, exports makes parts available to other modules
25	Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)?	{ path: 'admin', loadChildren: () => import('./admin/admin => m.AdminModule) }	{ path: 'admin', loadChildren: () => n.mod ure)orth@namin/admin.s => m.AdminModule) }

26	Given	Author.objects.filter(books <u>Authorlletija.at</u>)s.filter
	the	
	following	
	models:	
	class	
	Author(models.Model):	
	name =	
	models.CharField(rnax	_length=100)
	class	
	Book(models.Model):	
	title =	
	models.CharField(rnax	_length=100)
	author =	
	models.ForeignKey(Au	thor,
	on_delete=models.CAS	SCADE,
	related_name='books')	
	Which of	
	these	
	queries	
	returns	
	all Author	
	instances	
	that have	
	no	
	books?	

27	What happens when you call save() on a Django model instance without specifying force_insert or force_update, and the instance has a primary key that already exists in the database?	It will do an UPDATE	It will do an UPDATE
28	In Django REST Framework (DRF), what is the main function of SerializerMethodField?	It enables custom read-only fields whose value is computed by a method	It enables custom read-only fields whose value is computed by a method

29	Which of the following is the most efficient way to handle a large number of background tasks in Django?	Integrating with a task queue like Celery.	Integrating with a task queue like Celery.
30	How would you implement real-time communication (e.g., chat) in a Django application?	Using Django Channels for WebSockets.	Using Django Channels for WebSockets.
31	What is the primary purpose of ChangeDetectionStra in Angular?	To improve performance by only checking stegy. Orforsh changes when input properties change or an event is explicitly triggered.	To improve performance by only checking for changes when input properties change or an event is explicitly triggered.

32	How can you ensure proper communication between two unrelated Angular components without a direct parent-child relationship?	Utilizing a shared service with a Subject or BehaviorSubject.	Utilizing a shared service with a Subject or BehaviorSubject.
33	When integrating Django as a backend and Angular as a frontend, what is the recommended approach for handling user authentication and authorization?	Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.	Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.

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34	What will be the Output of the Following Code? Python x = 10 def outer_func(): x = 5 def inner_func(): print(x) inner_func() outer_func()	Not Answered	5
35	What is the best data structure to implement a cache with FIFO eviction policy?	Not Answered	Queue + HashMap
36	What is the purpose of csrf_token in a Django form?	Not Answered	To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site

37	What is	Not	It allows
	the main	Answered	for
	advantage		loading
	of lazy		modules
	loading		on
	feature		demand,
	modules		which
	in		reduces
	Angular?		the
			initial
			application
			load
			time.
38	What is	Not	То
	the main	Answered	register
	purpose		the
	of the		routing
	RouterModule.forRo	ot()	service
	method	V	and
	in		provide
	Angular?		the
			router
			configuration
			for the
			root
			application

39	What is the difference between constructor and ngOnInit in an Angular component?	Not Answered	constructor is for dependency injection and simple initializations, while ngOnInit is for more complex logic that should run after the component's inputs are available.
40	What does the queryset attribute in a Django generic ListView define?	Not Answered	The list of objects that the view will display
41	In the context of exception handling, what is the purpose of the finally block?	Not Answered	It is always executed, regardless of whether an exception occurred or not.

42	What does the pass statement do in Python?	Not Answered	It acts as a placeholder where code is syntactically required but no action is needed.
43	How do you pass data from a child component back up to a parent component	Not Answered	B) Using @Output() and an EventEmitter.
44	In the Django MVT (Model-View-Templar architecture, what is the "T"?	Not Answered te)	Template
45	How do you pass data from a parent component to a child component?	Not Answered	Using the @Input() decorator.