Student Result

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Exam: Python , Django , Angular Programming

Score: 18.0/45.0

Percentage: 40.00%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	Which type of Programming does Python support?	object-oriented 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	[6, 6, 6,	[6, 6, 6,
	be the	6]	6]
	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)		
5	What will	[11, 12,	[10, 11,
	be the	13]	12]
	output of		
	the		
	the following		
	the following Python		
	the following Python code?		
	the following Python code? def		
	the following Python code? def create_funcs():		
	the following Python code? def create_funcs(): funcs = []		
	the following Python code? def create_funcs(): funcs = [] for i in		
	the following Python code? def create_funcs(): funcs = [] for i in range(3):		
	the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x,		
	the following Python code? def create_funcs(): funcs = [] for i in range(3):		
	the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i):		
	the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x		
	the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x + i		
	the following Python code? def create_funcs(): funcs = [] for i in range(3): def f(x, i=i): return x + i funcs.append(f)		
	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 =		
	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()		
	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)		
	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		
	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)		

Calling
Calling
add (3
times),
then 10

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])	

9	What will	Error at	1, 2,
	be the	yield	Returned:
	Output	from	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)		
	p(vai)		

10	What will	1	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	dec2,	dec1,
	be the	dec1,	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)	Subgen returned: Done 2	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]

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

17	n a Django + Angular app using REST API, what is a good reason to disable CSRF middleware?	REST APIS don't need any security	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?	Enable HttpClientModule	Configure CORS_ORIGIN_AI_LOW 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)	[0]	[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))	Invalid syntax	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	[0, 1, 4,	[0, 1, 4,
	be the Output of the Following Code? def f(x, I=[]): for i in range(x): I.append(i*i) return I print(f(3)) print(f(2))	0, 1]	0, 1]
24	In Angular (≥2+), what is the difference between NgModule.imports and NgModule.exports?	Both are synonyms; they do the same thing	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: () => 'AdminModule' }	{ path: 'admin', loadChildren: () => import('./admin/admin.n => m.AdminModule) }

26	Given	Author.objects.filt	er(books #Nithæ) .objects.filte	r(bo
	the	_		-
	following			
	models:			
	class			
	Author(models.Mod	lel):		
	name =			
	models.CharField(r	nax_length=100)		
	class			
	Book(models.Mode	I):		
	title =			
	models.CharField(r	nax_length=100)		
	author =			
	models.ForeignKey	(Author,		
	on_delete=models.	CASCADE,		
	related_name='boo	ks')		
	Which of			
	these			
	queries			
	returns			
	all Author			
	instances			
	that have			
	no			
	books?			
			i i	

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 delete and then insert	It will do an UPDATE
28	In Django REST Framework (DRF), what is the main function of SerializerMethodField	It serializes file fields only	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?	Implementing a custom CronJob within Django.	Integrating with a task queue like Celery.
30	How would you implement real-time communication (e.g., chat) in a Django application?	Relying solely on Django's built-in HttpRequest and HttpResponse.	Using Django Channels for WebSockets.
31	What is the primary purpose of ChangeDetectionStrate in Angular?	To force a full change detection cycle on gy.Oneverly browser event.	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	Utilizing a shared service with a Subject or BehaviorSubject.	Utilizing a shared service with a Subject or BehaviorSubject.
33	without a direct parent-child relationship? When integrating Django	Storing user credentials	Implementing token-based authentication
	as a backend and Angular as a frontend, what is the recommended approach	directly in Angular's local storage and sending them with every	(e.g., JWT) where Django issues tokens and Angular stores and
	approach for handling user authentication and authorization?	request.	sends them.

		i i	
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()	5	5
35	What is the best data structure to implement a cache with FIFO eviction policy?	Queue + HashMap	Queue + HashMap
36	What is the purpose of csrf_token in a Django form?	To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site	To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site

37	What is	It allows	It allows
	the main	for	for
	advantage	loading	loading
	of lazy	modules	modules
	loading	on	on
	feature	demand,	demand,
	modules	which	which
	in	reduces	reduces
	Angular?	the	the
		initial	initial
		application	application
		load	load
		time.	time.
38	What is the main purpose of the RouterModule.forRoot() method in Angular?	To register the routing service and provide the router configuration	To register the routing service and provide the router configuration
		for the	for the
		root	root
		application	application

39	What is the difference between constructor and ngOnInit in an Angular component?	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.	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?	The list of objects that the view will display	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.