Student Result

Student Name: Gaurav Patil

Exam: Python , Django , Angular Programming

Score: 0.0/0.0

Percentage: 0.00%

Question-wise Summary

Sr.no	Question	Selected Answer	Correct Answer
1	Which type of Programming does Python support?	*Not Answered*	**all of the mentioned**
2	What does the @staticmethod decorator do in a Python class?	*Not Answered*	**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?	*Not Answered*	**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)	*Not Answered*	**[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])
		Not Answered	**[10, 11, 12]**

6	What will be the output of the following Python code? def logger(func): def wrapper(*args, **kwargs): print(f"Calling {func.__name__}") return func(*args, **kwargs) return wrapper @logger def add(x, y): return x + y result = add(add(1, 2), add(3, 4)) print(result)	*Not Answered*	**Calling add (3 times), then 10**

7	What will be the Output of the Following Code? class Weird: def __init__(self, x): self.x = x def __eq__(self, other): return self.x == other.x a = Weird(10) b = Weird(10) d = {a: "Hello", b: "World"} print(len(d), d[a])	*Not Answered*	**2 Hello**

8	What will 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))
		Not Answered	**5, 3, 2**

9	What will be the Output 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)	*Not Answered*	**1, 2, Returned: 3**

10	What will 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))	*Not Answered*	**2**

11	What will be the Output of 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()
		Not Answered	**dec1, dec2, 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)	*Not Answered*	**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))	*Not Answered*	**[1], [1, 2], [1, 2, 3]**

14	Which of the following operations will NOT trigger model.save() or signals (pre_save/post_save)?	*Not Answered*	**MyModel.objects.bulk_c**
15	What will be printed? Component: @Component({ selector: 'app-test', template: '{{ value }}' }) class TestComponent implements OnInit { value = 'initial'; ngOnInit() { setTimeout(() => this.value = 'changed', 0); } }	*Not Answered*	**Initial**
16	What does providing a service in the component (instead of module) do?	*Not Answered*	**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?	*Not Answered*	**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?	*Not Answered*	**Configure CORS_ORIGIN_ALLOW 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)	*Not Answered*	**[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))	*Not Answered*	**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?	*Not Answered*	**Problems with node_modules**
22	In Angular, which file is used to define the set of modules, components, and services?	*Not Answered*	**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))	*Not Answered*	**[0, 1, 4, 0, 1]**
24	In Angular (≥2+), what is the difference between NgModule.imports and NgModule.exports?	*Not Answered*	**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+)?	*Not Answered*	**{ path: 'admin', loadChildren: () => import('./admin/admin.m => m.AdminModule) }**

26	Given the following models: class Author(models.Model): name = models.CharField(max_length=100) class Book(models.Model): title = models.CharField(max_length=100) author = models.ForeignKey(Author, on_delete=models.CASCADE, related_name='books') Which of these queries returns all Author instances that have no books?	*Not Answered*	**Author.objects.filter(boo**

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?	*Not Answered*	**It will do an UPDATE**
28	In Django REST Framework (DRF), what is the main function of SerializerMethodField?	*Not Answered*	**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?	*Not Answered*	**Integrating with a task queue like Celery.**
30	How would you implement real-time communication (e.g., chat) in a Django application?	*Not Answered*	**Using Django Channels for WebSockets.**
31	What is the primary purpose of ChangeDetectionStrategy.OnPush in Angular?	*Not Answered*	**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?	*Not Answered*	**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?	*Not Answered*	**Implementing token-based authentication (e.g., JWT) where Django issues tokens and Angular stores and sends them.**

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

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-Template) architecture, what is the "T"?	*Not Answered*	**Template**
45	How do you pass data from a parent component to a child component?	*Not Answered*	**Using the @Input() decorator.**