

Student Result

Student Name: Prajwal Sandage

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? | <i>Not Answered</i> | all of the mentioned |
| 2 | What does the @staticmethod decorator do in a Python class? | <i>Not Answered</i> | 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? | <i>Not Answered</i> | manage.py makemigrations and manage.py migrate |

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| 4 | <p>What will be the output of the following Python code?</p> <pre>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)</pre> | <p><i>Not Answered</i></p> | <p>[6, 6, 6, 6]</p> |
| 5 | <p>What will be the output of the following Python code?</p> <pre>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])</pre> | <p><i>Not Answered</i></p> | <p>[10, 11, 12]</p> |

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 Weir:
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**

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| 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) | <i>Not Answered</i> | 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)) | <i>Not Answered</i> | [1], [1, 2], [1, 2, 3] |

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

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| 17 | In a Django + Angular app using REST API, what is a good reason to disable CSRF middleware? | <i>Not Answered</i> | 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? | <i>Not Answered</i> | 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) | <i>Not Answered</i> | [0] |

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|----|--|----------------------------|--|
| 20 | <p>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))</p> | <p><i>Not Answered</i></p> | <p>Extra '(' remaining</p> |
| 21 | <p>During project setup, if ng serve fails with the error "Local workspace file ('angular.json') could not be found", what is the likely issue?</p> | <p><i>Not Answered</i></p> | <p>Problems with node_modules</p> |
| 22 | <p>In Angular, which file is used to define the set of modules, components, and services?</p> | <p><i>Not Answered</i></p> | <p>app.module.ts</p> |

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|----|--|---------------------|---|
| 23 | <p>What will be the Output of the Following Code?</p> <pre>def f(x, l=[]): for i in range(x): l.append(i*i) return l print(f(3)) print(f(2))</pre> | <i>Not Answered</i> | [0, 1, 4, 0, 1] |
| 24 | <p>In Angular ($\geq 2+$), what is the difference between <code>NgModule.imports</code> and <code>NgModule.exports</code>?</p> | <i>Not Answered</i> | imports declares dependencies the module needs, exports makes parts available to other modules |
| 25 | <p>Which of these is a valid way to lazily load a module in Angular's router (from Angular 8+)?</p> | <i>Not Answered</i> | { path: 'admin', loadChildren: () => import('./admin/admin.module') => m.AdminModule } |

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| 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? | <i>Not Answered</i> | Author.objects.filter(bo |
|----|---|---------------------|---------------------------------|

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| 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? | <i>Not Answered</i> | It will do an UPDATE |
| 28 | In Django REST Framework (DRF), what is the main function of SerializerMethodField? | <i>Not Answered</i> | It enables custom read-only fields whose value is computed by a method |

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| 29 | Which of the following is the most efficient way to handle a large number of background tasks in Django? | <i>Not Answered</i> | Integrating with a task queue like Celery. |
| 30 | How would you implement real-time communication (e.g., chat) in a Django application? | <i>Not Answered</i> | Using Django Channels for WebSockets. |
| 31 | What is the primary purpose of <code>ChangeDetectionStrategy.OnPush</code> in Angular? | <i>Not Answered</i> | To improve performance by only checking for changes when input properties change or an event is explicitly triggered. |

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| 32 | How can you ensure proper communication between two unrelated Angular components without a direct parent-child relationship? | <i>Not Answered</i> | 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? | <i>Not Answered</i> | 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() | <i>Not Answered</i> | 5 |
| 35 | What is the best data structure to implement a cache with FIFO eviction policy? | <i>Not Answered</i> | Queue + HashMap |
| 36 | What is the purpose of csrf_token in a Django form? | <i>Not Answered</i> | To prevent Cross-Site Request Forgery (CSRF) attacks by ensuring the request comes from your own site |

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| 37 | What is the main advantage of lazy loading feature modules in Angular? | <i>Not Answered</i> | 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? | <i>Not Answered</i> | To register the routing service and provide the router configuration for the root application module. |

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| 39 | What is the difference between constructor and ngOnInit in an Angular component? | <i>Not Answered</i> | 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? | <i>Not Answered</i> | The list of objects that the view will display |
| 41 | In the context of exception handling, what is the purpose of the finally block? | <i>Not Answered</i> | It is always executed, regardless of whether an exception occurred or not. |

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| 42 | What does the pass statement do in Python? | <i>Not Answered</i> | 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 | <i>Not Answered</i> | B) Using @Output() and an EventEmitter. |
| 44 | In the Django MVT (Model-View-Template) architecture, what is the "T"? | <i>Not Answered</i> | Template |
| 45 | How do you pass data from a parent component to a child component? | <i>Not Answered</i> | Using the @Input() decorator. |