ASSIGNMENT
 sub by:
        ABHISHEK p.s
        Python jul22B3 Anshya

1.What is django ?

 Django is a high level python web framework that enables rapid
development of secure and maintainable websites.

Django is free and open source.

2.What is CRUD in django ?

= CRUD stands for Create Read Update and Delete.
These are the four basic operations which are executed on Database
Models.

3.What is CSRF token ?

 CSRF stands for Cross Site Request Forgery
CSRF is an alphanumeric code or a secret code which is used to protect
our webpage.
It prevents CSRF attacks.

4.What are the features of django ?

Less code
Consistent design
Open source
Rapid development
Security
Not repeated

5.Explain django architecture

 Django architecture is MVT

M-Model
V-View
T-Template

MVT architecture :

user-Django-url-view-template/model

M-Model - model is used to handle database
model is a collection of tables in database

V-View - view is collection of functions

T-Template - template is collection of html files

6.What is models.py and forms.py ?

models.py is a python file that collects models/tables code of the data
we are storing

forms.py is a python file that collects forms code

7.What is template language ?

 HTML :Hypertext Markup Language

8.What is views in django ?

 View is a python file that collects all function codes

9.What is ORM ?

ORM stands for Object Relational Mapper
ORM helps us to convert SQL query language into python language.
ORM enables us to interact with database.
ORM helps us to perform database related tasks easily.

10.What is static files ?

 Static files are used to store images,css and javascript files.

11.What is DRF ?

 DRF stands for Django Rest Framework
DRF allows developers to rapidly develop restful API's.

12.What is django url ?

 URL is a path through which a specific web-based application and one
particular page in that web application can be reached.

13.What is migrate command ?

 migrate command is used to make the changes we made to our table
visible.

14.What is the use of makemigrations ?

 makemigrations commands are used to interact with django models.
makemigrations command is used to detect the changes we made to our
model.

15.Explain the difference between a project and an app ?

 Project : it refers to entire application and all of its parts.
App : it refers to a submodule of the project.

16.What is request in django ?

 Django request is used to get the section where we input data.

17.What is user authentication ?

 User authentication is used to verify a set of values.
It returns a user object if the credentials(username,password etc) are
valid.

18.What is middleware in django ?

 Middleware is a framework of hooks into Django's request/response
processing.
It's a light, low-level plugin system for globally altering Django's
input or output.

19.What is django context ?

 Context is used to pass data from backend to frontend.

20.What is the latest version of django ?

 Django 4.1

21.What is the difference between CharField and TextField?

 CharField has max_length of 255 characters and TextField can hold more
than 255 characters.
We use TextField when we have a large string as input.

22.What are some of the common exceptions occurs in django ?

 ObjectDoesNotExist
FieldDoesNotExist
ViewDoesNotExist
NoReverseMatch

23.What is django cookies ?

 A cookie is a small piece of information which is stored in the client
browser.
It is used to store user's data in a file permanently (or for the
specified time).

24.How to check the latest version of django ? command

 django-admin version

25.What is django.shortcuts.render ?

 It combines a given template with a dictionary and returns the
HttpResponse object with that rendered text.

26.Commands in django to create project and app ?

 project : django-admin startproject project_name
app : python manage.py startapp app_name

27.What is query set in django ?

 A QuerySet is a collection of data from a database.

28.Explain the types of files that is created automatically when you
create a project .

 init.py
admin.py
apps.py
models.py
views.py
urls.py
tests.py

29.what is the difference between a filter() and a get()

 get() : used when we want to get a single unique object
filter(): used to filter our search and allows us to return only the rows
that matches the search term.

30.What is django session ?

 A session is a way to store information (in variables) to be used across
multiple pages