Tell me about Yourself?

Thank you given me this opportunity introduce myself, my name is Puspendu, i basically from west Bengal, I have Done my MCA New Horizon College of engineering, Bangalore.

I am a Python developer and the main work in my previous organization totally related to back-end and fomat-end technology.

I have a good knowledge of backend technology like Python, Django database like Postgress, MySQL, SQLite. Apart from this i have good knowledge of Frontend technology as will, like HTML, CSS, Javasaipt, jQuery, Bootstrap, React.

My Previous Company was Aakins Global Pvt. Ltd One of the start-up Company.

I am Currently Working as a freelancer developing web page for ANNA PRITHIBI SEEDS PVT. LTD

I have total experience in this field 2 year.

That's all about me

Why you live your pervious company?

I had to leave my previous organization due to a family emergency. Basically, my father was ill. However, everything is fine now and I'm very excited get back to work and focus on my career.

Though I've learned a lot of my previous company, from my research about this opportunity, I can see this is better fit for where I want to take my career.

Do you have any offer with you?

Yes, i have offer with one company, but i feel the position they offered is not want i am looking for, so, i am searching for other job.

What is your Expected Salary?

Over the year i really upskilled myself. I believe based on market standards for this Particular role and my experience and skill Set a salary range between 6 to 6.5 lacks Would be fair and appropriate.

why should we hire you?

Honestly, I have all the skills and experience that you are looking for, I'm Pretty Confident that I am the best Candidate for this job role. It's not Just my background in the past Projects but also my people skills which will be applicable in this position.

Where do you see yourself from five years now?

I see myself as a knowledgeable Professional having a in-depth knowledge of the Company and the industry and to be in a Senior position of the Company.

Are you a good team player?

yes, I enjoy working in a team environment, I believe only team work will make more Productive.

What do you know about our Company?

I know that Your Company is one at the longest Company Country in this industry, your headquarter Ranchi, Jharkhand and Founded 2019, there are 11-50 employees working as per your website. That's why i was excited to apply for this position.

What is your greatest Professional Achievement?

Basically, i have to work web-related work, But my Project i need to work other technologies also means app related work. So, i have to Spent some extra time to learn about this technology.

Then i was able to work independelly Other technologies and got appreciate by team lead.

Tell me about one stressful situation you faced in your Project.

I once had two large projects in the same week, and that was under lot of pressure.

However, because i create a schedule that detailed how i would break down each Project into Small assignment manged to complete all two Projects ahead time and avoid Unnecessary stress.

Tell me about your roles and responsibilities of your current work?

We will be assigned works based on agile methodology, my daily job roles and responsibilities will be I contribute to requirement gathering, analysis, implementing, design of new requirements and bug fixe.

I have to handle backend and fronted part.

Tell me about your work process?

My Previous Company was Aakins Global Pvt. Ltd One of the start-up Company. We have total development team 4 involved in our project, i have to worked basically Frontend and backend, other two development team member basically worked API and mobile app. If we are face any issue means someware stack our senior developer help us, and After complet task we have to push code on GitHub, And also we have to update in excel sheet for testing purposes. Then testing team performs the test, if testing team face any issues like found any

bugs they update bug list and we have to solved bug and update status complete, like this waya we have to work our previous company.

Tell me about one stressful situation you faced in your project?

or

Tell me about one challenges?

My Previous Company was Aakins Global Pvt. Ltd One of the start-up Company. We have total development team 4 involved in our project,

i have to worked basically Frontend and backend, other two development team member basically worked API and mobile app. However one of our team members who worked on mobile app, he left the company for some reason, For this I need to work on the app, so, that time i was feeling a bit stressed, But i don't want to miss this opportunity. So i have take up the extra responsibility and I managed everything and avoid unnecessary stress, this is one of the challenges i faced.

Tell me about your project?

I worked one of the client Project Tomes, it is Web and app based application, web part developed using Django framework that is online based application and app part developed using react Native that is online and off-line based application.

Our Project basically users Can Work Online and offline mode, even if there is no internet any place user can work our project.

The project focus easy and reliable Platform to manage different domain electrical, mechanical, Construction sector.

This application Consists of bunch of module Like- signup, signin, Forget Password, signont; Welcome Screen, Question, submodule ,Test Plan, Document and so on.

Super admin make specify of how many admin, manager, planner, tactician work in our project. App application only access technician, planner and manager.

In our Project one of the most important module test plan

Before going to test plan we have to perform Question, Submodule, form this three module fully based on test plan.

Admin can create question like form structure

Submodule basically collection of question, Admin cam mapped multiple question here And

Form basically collection of Submodule.

After that admin mapped final from into the test plan also assign which technician, which planner can work.

In app we have a sync button that is basically used to get all data from to the server.

Do you have any questions for me?

Can you please share the day to day responsibility for this role?

Git --version (Check git version), Git config –global user.name "Your name", Git config –global user.name "email_id", Git init, git status, git add <file name>(Convert Untrack file to track file), git commit -m "message of commit"(commit), git add .(all file staging), git branch(show all branch), git branch dev(create branch), git PUSH, git PUL, git clone <Git hub link>, (dev)>git merge anuj (merge branch), vim <fileName>....:eq

- 1. Pip install django
- 2. Python -m Django -version
- 3. Pip freeze

- 4. Django -admin startproject sahu
- 5. Python manage.py startapp sampa
- 6. Pip freeze

Model Inheritance

- * Abstruct base class
- * Multi-table Inheritance
- * Proxt model Inheritance

7. Python manage.py runserver (makemigrations, migrate, showmigrations, showmigrations

AppName, createsuperuser, inspectdb)

- 8. Python manage.py runserver 8080
- 9. Python manage.py runserver 0.0.0.0:8000
- 10. pip install virtualenv
- 11. virtualenv env
- 12. cd env/Scripts

DISWE (Message Framwork)

Cookie---> request.set_cookie('name','puspendu',expires=datetime.Utcnow()+timedelta(days=2))

Name = request.cookies.get('name')

- request.session[name]='sonam'
- request.session.get('name',default='puspendu')
- request.session.set_expire(10) -----> views.py
- session_cookie_age = 400---> settings.py

Session

database-backed (Default)

file-based (django.contrib.sessions.backends.file) (Local)

- cookie-based(django.contrib.sessions.backends.signed_cookies)
- cached



Directory Structure(project)

Manage.py, __init__.py,settings.py,urls.py, wsgi.py- This is an entry point for your application which is used by the web server to serve the project you have create.

Generic Class-Based Views / Generic View

Directory Structure(app)

Display View – ListView, DetailView Editing View – FormView, CreateView, UpdateView, DeleteView

init .py,admin.py,app.py,migrations,models.py,test.py-App unit test automation class include here

Signals – Two improtent parameter in signal sender and resever, Django provide many built-in signal dispatchers like -- pre-init, post-init – send before or after __init__() method is called pre-save, post-save, pre-delete, post-delete, request-start, request-finishd

DjangoAdmin-

version, runserver, startapp, startproject, createsuperuser, makemigrations, migrate,

Exception- The Django.core.exceptions module contains the some class EmptyResultSet, fieldDoesNotExist, viewDoesNotExist, MiddlewareNotUsed, Fielderror, validateError

Select_related & prefetch_related- Both of the function are used to fetch the data. In simple word **select_related** used a foreign key relationship using join the query. **Prefatch_related** there is a separate lookup and the joining on the python side.

1.create AWS EC2 instance 2.configure security group 3.Connect EC2 instance 4.Update ubuntu 5.Install python & Nginx 6.clone project 7.Create vartualEnv then install package from requirement.txt file 8.Install Django & gunicorn 9.setting Django project 10.Deactive virtual env 11.create socket file for gunicorn 12.enable gunicorn socket 13.create socket file for nginx 14.enable nginx 15. restart

Git --version (Check git version), Git config –global user.name "Your name", Git config –global user.name "email_id", Git init, git status, git add <file name>(Convert Untrack file to track file), git commit -m "message of commit"(commit), git add .(all file staging), git branch(show all branch), git branch dev(create branch), git PUSH, git PUL, git clone <Git hub link>, (dev)>git merge anuj (merge branch), vim <fileName>....:eq

```
UserModel
               Custom UserModel--> 1.AbstructUser 2.AbstructBaseUser
                                              fields = ['username', 'first_name', 'last_name', 'email']
from django.contrib.auth.models import User
class Customer(models.Model):
   user = models.ForeignKey(User, on_delete=models.CASCADE, related_name='mypage')
                                                           stu=Student.objects.order_by('name').first()
   comment=models.CharField(default='not available', max_length=40)
                                                            last()
   students = CustomManager()
                                                            latest('pass_date')
   def __str__(self):
                                                            earliest('pass date')
      return str(self.id)
ModelForm
                 Header payload signature
                                                            filter(name__exact='Sonam') #ClseSensativfe
                                                            filter(name__iexact='sonam') #In clseSensativfe
from django import forms
                                                            filter(name contains='u')
from .models import User
                                                            filter(name__icontains='U')
                                                            filter(id in = [1, 5, 7])
   class Meta:
                                                            filter(marks gt = 60)
      model = User
                                                            filter(marks__gte = 60)
      fields = ['name', 'email', 'password']
                                                            filter(marks__lt = 60)
       labels = {'name':'Enter Name', 'password':'Enter Password'}
                                                            filter(marks lte = 60)
                                                            filter(name startswith='S')
      exclude = ['name']
                                                            filter(name istartswith='s')
 per Site(settinges.pv)
                                                            filter(name endswith='L')
                                    {% include
CACHE MIDDLEWARE SECONDS = 30
                                                            filter(name__iendswith='L')
                                    "template_name.html"
 er View(viewes.py)
                                                            filter(passdate__range=('2020-04-01', '2020-05-
@cache_page(60)
                                    {% extends 'base.html'
                                                            03'))
 emplate fagment(temp.html)
                                    %}
                                                            filter(passdate year=2019)
{% cache 30 course %}
                                    {% block title %}
 <h1>Course 3</h1>
                                     Home
                                                            student_data = Student.objects.all()
 <h1>Course 4</h1>
                                    {% endblock %}
                                                            average = student_data.aggregate(Avg('marks'))
{% endcache course %}
                                                            Sum, Min, Max, Count
docker build -t ImageName ----> create image
docker run --name containerName imageName ----> create
                                                            student data = Student.objects.filter(Q(id=6) &
container
                                                            Q(roll=106))---->
docker run --name containerName -d imageName ----> run
                                                            student data = Student.objects.filter(~Q(id=6))
container in detach mode
docker run --name containerName -itd imageName ----> run
                                                            data3 =
container in interactive mode
                                                            Page.objects.filter(user__email='contact@geekys
                                                            hows.com')
docker pull imageName--> Get image from docker hub
docker images---> show all images
                                                           Authantication View
docker ps----> show all container(only runing container)
                                                           path('accounts/', include('django.contrib.auth.urls'))
docker ps -a ---> show all container(runing and not runing
                                                           accounts/login/
container)
                                                           logout/, password change/, password change/done/
docker stop container name ----> stop container
                                                           password_reset/, password_reset/done/,
docker start container name ----> start container
                                                           reset/<uidb64>/<token>/, reset/done/
docker restart container_name ----> restart container
docker rm container_name----> remove container
```

docker rmi image_name----> remove image

API Status

- 1. Informational(100-199)
- 2. Success(200-299)
- 3. Redirection(300-399)
- 4. Client Error(400-499)
- 5. Server Error(500-599)

API Views(Function Based)

Get,Post,Put,Patch,delete

from rest_framework.views import APIView class StudentAPI(APIView):

def get(self, request, pk=None, format=None):

Concrete GenericAPIView(----)

ListAPIView

createAPIView

retrieveAPIView

updateAPIView

DestroyAPIView

LC, RU, RD, RUD

from rest framework.generics import

ListAPIView

class StudentList(ListAPIView):

queryset = Student.objects.all()

serializer class = StudentSerializer

<u>Permison</u>

Project level

- 1. AllowAny
- 2. IsAuthenticated
- 3. IsAdminUser
- 4. IsAuthenticatedOrReadOnly
- 5. DjangoModelPermissions
- 6. DjangoModelPermissionsOrAnonReadOnly

from rest_framework.authentication import
BasicAuthentication

authentication_classes=[BasicAuthentication]

Open Command prompt -> Install psycopg2 -> connect postgress with python -> create cursor object -> Execute query

ACCESS_TOCKEN_LIFETIME

REFRESH TOCKEN LIFETIME

class StudentModelViewSet(viewsets.ModelViewSet):

queryset = Student.objects.all()

serializer_class = StudentSerializer

viewsets(class Based)

list(),retrieve(),create(),update(),partial_update(),
destroy()

from rest_framework import viewsets
class StudentViewSet(viewsets.ViewSet):
 def list(self, request):

GenericAPIView and ModelMixin

listModelMixin createModelMixin retrieveModelMixin updateModelMixin DestroyModelMixin

from rest_framework.mixins import ListModelMixin class StudentList(GenericAPIView, ListModelMixin): queryset = Student.objects.all() serializer_class = StudentSerializer

def get(self, request, *args, **kwargs):
 return self.list(request, *args, **kwargs)

Authentication

- 1. BasicAuthentication
- 2. SessionAuthentication
- 3. TokenAuthentication
- 4. RemoteUserAuthentication

from rest_framework.permissions import IsAuthenticated

permission classes=[IsAuthenticated]

List

Find cubes using list comprehension

https://docs.google.com/document/d/1ewFNld5APkSec_0hc3DwctO_wYJY9atpBx-Mlt4baxM/edit?usp=sharing

sort list with out using sort function

https://docs.google.com/document/d/1MrHUFFJAmd1DybUULmcxNZT6hauuxMgmwa-TbZe4FFQ/edit?usp=sharing

Dictionary

Reverse Dictionary Keys Order

https://docs.google.com/document/d/1b 19gER5v4pTNDJ4U lxYA5y8HBb MZXh3w4nf3VCMw/edit?usp=sharing

Sort by dictionary(Convert tuple to dictionary)

https://docs.google.com/document/d/1vqlXw7676cW79A9RupJoLLClp4u56NU6CfkJ87asYcc/edit?usp=sharing

Generator And Iterator:

Fibonacci using Ganarator

https://docs.google.com/document/d/1IYwoolRmDj2VNmjxPQENIAsC-ly0mLnybuFCiBYPxel/edit?usp=sharing

File:

with, read, write, read & write

https://docs.google.com/document/d/1S7siGx3Vk RftxrURVDJ6lrJo04lxxgdrFSJAqRUvew/edit?usp=sharing

copy line from test.text to test1.text file

https://docs.google.com/document/d/1j0wx2kWt0EEfAXNBTCQPYezjGzFLvAdAnbggxH7Kg/edit?usp=sharing

Recursion

ReversList using recursion

https://docs.google.com/document/d/1C9kn8N9T-n4scdl8-1NmG-klJpPsZJRdTH5llAQrjp8/edit?usp=sharing

recursion with fibonacci serise

Palindrome or not

palindrop or not

https://docs.google.com/document/d/1V4_zco0--IRPqZKoh3n34JYPIGnUqiA7tDMs6S_drD0/edit?usp=sharing

Sting pllindrom

https://docs.google.com/document/d/1Q_z54HkJL_7Ryi4VeTkLt3KpKOFecIButxCos4Q74MQ/edit?usp=sharing

Sort

people sort

https://docs.google.com/document/d/1wcKHfpAJNi3GjyTbc6CJ8OHSMvLE-QsqQ7KQJBOjQM8/edit?usp=sharing

Find

Find Missng Number

https://docs.google.com/document/d/1jdFFUJFSsre_NlYvD4pbC49uoBSaHfxWTzSAhNveEMA/edit?usp=sharing

Find element from nested lists

https://docs.google.com/document/d/1ZzSOQLyDtl3f6WnN6auj1ftM EUPHZd4p0L0sJoJlg/edit?usp=sharing

Find even number from list using lambda function

https://docs.google.com/document/d/1 IP4avqTwRd7-JHsEE9ghXVQTqTG93MAe2c1IsjWakk/edit?usp=sharing

Find odd number

https://docs.google.com/document/d/102EjSR_oBrrahyLR4UEDZm9KmYzjPjbPWE9XdrcYsm8/edit?usp=sharing

Program

prime number program

https://docs.google.com/document/d/1Vx9PmCMHCGhDWXVVPhWJ4DOrOgtbn_Po4xXzvKmX1rw/edit?usp=sharing

Armstrong or not

 $\frac{https://docs.google.com/document/d/1U80Bal86ESgLzKXaZcJ8uYxii0rr8FE6qM5Ss-7KO0A/edit?usp=sharing}{}$

Factorial number

https://docs.google.com/document/d/12pDCriNwk9epDa_seRZ60a8jkQtNplYyqamwnvJ5FtU/edit?usp=sharing

Fibonacci serise

https://docs.google.com/document/d/12GGjsdPo1561j-mp1QpEn-A2Vp_sSnCvPWRIncVWELA/edit?usp=sharing

Define a function that will take two number and an operator as a argument and evaluate it's result

https://docs.google.com/document/d/1i5myZJUZNWfnbTGutKstwj42vn8D8zT89kKCL7mEWt8/edit?usp=sharing

concatenate tuple

https://docs.google.com/document/d/1_gzquT0xhBl_YULthFbDKv9W8woJ6zrq4Gl3XwHFP6k/edit?usp=sharing

multiplication Without operator

https://docs.google.com/document/d/1qfOPNBA9uleaFvkH80Wp64ABo42toPlj0W-bZoIu7ds/edit?usp=sharing

addition of the other two objects.

https://docs.google.com/document/d/1DELCBhwrVZ3L1fidXpR_Iqqy-IC49fH74WS8HgXtRw0/edit?usp=sharing

fizzBuzz

https://docs.google.com/document/d/1awQsESTE-uRywyNsOrFfhQpmOIm2Cy3NvYyAYsjK674/edit?usp=sharing

How to combine two data frams in python using pandas

https://docs.google.com/document/d/1iiboHblpzWRh3nVNt8iYk2ZFw9ACTBhJwqyj8_sEVzA/edit?usp=sharing

String

'the quick brown fox jumps over the lazy dog' Count number of 'o'

https://docs.google.com/document/d/1aqPyw59mYUelnUmTgI-_iies_IX6-6hlKwvvqyvqwRg/edit?usp=sharing

```
"Reverse string data"
data string Reverse
```

https://docs.google.com/document/d/1gFN-E3aj9ll33rjRhAlshA4qEPkXRVGT2dh8-t6K_Q8/edit?usp=sharing

```
['12345786', '096265827','ADRGJUUIKKMHG',
'12584Ugthj', '12452696k']
# ['ADRGJUUIKKMHG', '12584Ugthj',
'12452696k']
```

https://docs.google.com/document/d/13ecJYOW8Fi04j5pLwcWJYGajh-y274xz8HP0YvojbZw/edit?usp=sharing

```
# lowest Repeating character in a string
"gdsfgus dhsfdshf dsfhviusd"
{'g': 2, 'd': 5, 's': 6, 'f': 4, 'u': 2, ' ': 2,
'h': 3, 'v': 1, 'i': 1}
s
```

https://docs.google.com/document/d/1rd7jPAY8i-Ra1sZgxXEdGlogWA ZIOq1RDNFfyHOtmE/edit?usp=sharing

"/*apple are & found% only @red & green" apple are found only red green

https://docs.google.com/document/d/1cMC 3171JWqxhSMgSSzSM0poW-5TSipALW4E78HuBbl/edit?usp=sharing

```
# Modifi String Format:

# Input = I_Am_A_Coder

# Output = i.aM.a.cODER

# Input = This_Is_A_Good_Morning

# Output = tHIS_iS_a_gOOD_mORNING
```

```
# Using List

def string_format(s):
    1 = []
    temp = s.split('_')
    for i in temp:
        1.append(i[0].lower() + i[1:].upper())
        s = '.'.join(1)
    print(s)

s = "This_Is_A_Good_Morning"
string_format(s)
```

```
# Compress String
# aabbccddeeee = a2b2c2d2e4
def compress(s):
   n = len(s)
   new str = ''
   count = 1
   for i in range(n-1):
       if s[i] == s[i+1]:
          count += 1
       else:
          new_str += (s[i] + str(count))
          count = 1
   new_str += (s[n-1] + str(count))
   return new_str
s = 'aabbccddeerrrrr'
print(compress(s))
```

```
# input - 'hello, world, sahu'
# output - 'sahu, world, hello'
str1 = 'hello,world,sahu'
s = str1.split(',')
revStr = s[::-1]
joinRevStr = ','.join(revStr)
print(joinRevStr)

# printOutPut
str2 = 'helloworldsahu'
```

```
print("str2[5::]", str2[5::])
print("str2[:5:]", str2[:5:])
print("str2[::-1]", str2[::-1])
```

```
# string='abcdef'
# fibiSeries = [1,1,2,3,5,8]
# output- 20a1b1c2d3e5f8

s1 = 'abcdef'
fibo = [1,1,2,3,5,8]
sum = 0
for i in fibo:
    sum += i
new_s = str(sum)
n = len(s1)
for i in range(n):
    new_s = new_s + str(s1[i]) + str(fibo[i])
print(new_s)
```

Decorator

Decorator example

https://docs.google.com/document/d/1YQQ3C9tXWCpUZSC42Z5xyX4vWYwI3vxGvOuJ-yEZkw8/edit?usp=sharing

List

List comprehension

https://docs.google.com/document/d/1s7fTnN9gkYJiXmMnUiN370AfOOOVJPrcIQtbWge-4m4/edit?usp=sharing

Dictionary

Dict Comprehension

https://docs.google.com/document/d/1PBGqi_Hze96y8cr5PA4v2MJDBkoF6YpVqPzEQfnWC1g/edit?usp=sharing

Generator And Iterator:

Generator Example

https://docs.google.com/document/d/10o4BPZNjvYLLDR5fwxgjQkYDC4pYrdL0llXmheGgyE4/edit?usp=sharing

Iterator Example

https://docs.google.com/document/d/1BUy3X2Mzxn51mQk1QnK40M7g34RvbPYwm2WW0rAg8WA/edit?usp=sharing

Class & Object:

Class, object and Constructor

 $\frac{https://docs.google.com/document/d/1Ral2uhBuAiXNZr5ngQGAp0jJvbcs27zO5qf2FZUatM/edit?usp=sharing}{}$

Abstruct class and Abstruct method

https://docs.google.com/document/d/1aQHmmEpsgNP8vpTy0v-YC5qhkZ5EA3SW5atnYBhemRU/edit?usp=sharing

Inheritance:

Multiple Inheritance

https://docs.google.com/document/d/1oYNn7Aw9z08Q5i5_5zexzWfSWiJqYD6-fKcQhwlMU5o/edit?usp=sharing

MRO(Multiple Inheritance)

https://docs.google.com/document/d/1UrfdI3U0ulLpEFDUS1QaSzkAWwOZRw M2KRoeojfL2w/edit ?usp=sharing

*args AND **kwargs:

*args Example && **kwarge Example

https://docs.google.com/document/d/1E0lo9Dgb_ksnlfFililblRDQDal8T8JGB3Hz5BRdACw/edit?usp=sharing

Exception:

Normal Exception

https://docs.google.com/document/d/1Va0HyRN67eUqvZvbOPMAeVfweK-MVFjRgHAdubYyLeA/edit?usp=sharing

User define exception with list operation

https://docs.google.com/document/d/1kbgvSrkYZsoVslpslgXjL_DGDjH0Bclyg4ashUS3A8/edit?usp=sharing

map, filter, reduce

https://docs.google.com/document/d/1HOMS - PsOw67N7oAQ6IYbfLWEHnpYxBLAv2XJ2QQRbY/edit?usp=sharing

monkey patching concept

https://docs.google.com/document/d/1D9_NDCfWklqZVN51HfnL1pselUoM2AoK_RuPisMA7G8/edit ?usp=sharing

Call by value & Call by ref

https://docs.google.com/document/d/1dkEmXbB-KjtMv-Sm4t2wMKzR3jXYA-o4nS0LnuPo7PM/edit?usp=sharing

Deep Copy & Shallo Copy

 $\frac{https://docs.google.com/document/d/1WkGZ9zGbqGmYKV94786z3QQGjVkSupjqmhmYWDWYoZY/edit?usp=sharing}{}$

Instance Method & Class Method & static Method

https://docs.google.com/document/d/1fs3qLlcjqxkWanN3HOD8oPb8q3onw CX8JWricO2BF4/edit?usp=sharing

Operator Overloading

https://docs.google.com/document/d/1CuX3ttYH8xOie5jZgryyAiXPcXRW_9Tr-PfDgoyLvzo/edit?usp=sharing

```
Array
let animalArray = ['dog','cat',10]

// Add data in array
animalArray.push("Fox");
for(let i=0; i<animalArray.length; i++){
    console.log(animalArray[i]);
}</pre>
```

```
// for...of With array
let arr=[1,2,3];
for(let val of arr){
   console.log(val);
}
```

```
// for...in with object
const person = {
    name:'puspendu',
    age:26
};
for(let key in person){
    console.log(person[key]);
}
```

```
// forEach with arry and
object
Array
let arr=[1,2,3];
arr.forEach(function(item){
    console.log(item);
});

Object
const objPerson = {
    name:'puspendu',
    age:26
};
Object.values(objPerson).forEach(value);
})
```

```
// Named Function
function sum(a,b){
    return a+b;
};
console.log(sum(10,20));
```

```
// Anonymous
let sum = function(a,b){
    return a+b;
};
console.log(sum(10,20));
```

// CallBack

```
function add(a,b){
    return a+b;
};
function mul(a,b){
    return a*b;
};
function calculate(x,y,operation){
    return operation(x,y);
}
console.log(calculate(10,20,add))
console.log(calculate(10,20,mul))
```

```
// Arrow function
let sum = (a,b) => a+b;
console.log(sum(10,20))
```

```
// HighOrder
function hof(func){
   func();
}
hof(sayHello);
function sayHello(){
   console.log("Hello");
}
```

```
// event handling
click,mouseover,ke
ydown,keyup,submit
,focus,blur,change
,load
addEventListener('
click', handler)
```

```
// promises---> pending, resolved, or rejected
const myPro = new Promise((resolve, reject)=>{
    // perform asynchronous operation
    // if successfull call resolve
    // if failed call reject
    const rendomNum = Math.floor(Math.random()*10);
    if(rendomNum<5){</pre>
        resolve(`Success! Random number: ${rendomNum}`)
    }else{
        reject(`Error! Random number: ${rendomNum}`)
                           Array Destructuring
});
                           Extracting multiple values and stored in
                           objects and arrays.
myPro
                           var a, b;
.then((result) => {
                           [a, b] = [5, 10];
    console.log(result);
                           console.log(a); // 5
                           console.log(b); // 10
.catch((error) => {
                           UseContext(listed of used prop drilling)
    console.log(error);
```