location: javaserverec2/services/modules/network/vpc

```
parameters:   inputs: variables.tf
              variable "vpcconfig" {
                type = object({
                  vpc_cidr = string
                  vpc_name = string
                })
              }

function:     terraform configuration
              module: main.tf
              resource "aws_vpc" "vpc" {
                cidr_block = var.vpcconfig.vpc_cidr
                tags = {
                  "Name" = var.vpcconfig.vpc_name
                }
              }

return        module outputs: outputs.tf
value:        output "vpc_id" {
                value = "${aws_vpc.vpc.id}"
              }
```

location: javaserverec2/services/modules/network/subnet

```
parameters:   inputs: variables.tf
              variable "subnetconfig" {
                type = object({
                  vpc_id = string
                  subnet_cidr = string
                  availability_zone = string
                  subnet_name=string
                })
              }

function:     module configuration: main.tf
              resource "aws_subnet" "subnet" {
                vpc_id = var.subnetconfig.vpc_id
                cidr_block = var.subnetconfig.subnet_cidr
                availability_zone = var.subnetconfig_availablity_zone
                tags = {
                  "Name" = var.subnetconfig.subnet_name
                }
              }

output:       output "subnet_id" {
                value = "${aws_subnet.subnet.id}"
              }
```

```
variables.tf
------------
variable "vpc_cidr_block" {
  type = string
}
variable "vpc_name" {
  type = string
}


main.tf
-------
terraform {
  required_providers {
    aws = {
      source = "hashicorp/aws"
    }
  }
}
provider "aws" {
  region = "ap-south-1"
  profile = "default"
}

/*
resource "aws_vpc" "javaservervpc" {
  cidr_block = var.vpc_cidr_block
  tags = {
    "Name" = var.vpc_name
  }
}
*/
```

calling the module

```
module "javaservervpc" {
  source = "../services/modules/network/vpc"
  vpcconfig = {
    vpc_cidr =var.vpc_cidr_block
    vpc_name = var.vpc_name
  }
}
module "javaserversubnet" {
  source = "../services/modules/network/subnet"
  subnetconfig = {
    vpc_id = module.javaservervpc.vpc_id
    subnet_cidr="10.1.1.0/24"
    availability_zone = "ap-south-1a"
  }
  tags = {
    "Name" = "javaserversubnet"
  }
}
```

parameters:
values