U-SIM

UNIVERSAL SIM

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ABSTRACT

IDEA

- To implement data roaming domestically

DESCRIPTION

- Refers to the use of mobile data services whilst abroad.
- Dynamic binding
- Dynamic binding enables polymorphism.

CODE EXPLANATION

- Assuming Networks as some randomly generated numbers, the network which has more signal is suggested as the best connection for making a call, sending an SMS, or using the internet!

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HOW TO IMPLEMENT DYNAMIC BINDING??

Step 1:

```
ass Usim

  public:
  virtual void call()=0;  //pure virtual function
```

Step2:

```
class Airtel:public Usim
{
    public:void call()
    {
        cout<<"Call using Airtel network"<<endl;
    }
};
class Jio :public Usim{
    public:void call()
    {
        cout<<"Call using Jio network"<<endl;
    }
};
```

Step 3:

```
int main()
{
    Usim *p;
```

Step 4:

```
  srand(time(NULL));
t airtelsignal=rand()%100;
t jiosignal=rand()%100;
ut<<"Airtel signal="<<airtelsignal<<"%"<<endl
ut<<"Jio signal="<<jiosignal<<"%"<<endl;
```

Step 5:

```
if(airtelsignal>jiosignal)
p=new Airtel;
else
p=new Jio;
p->call();
return 0;
}
```

OUTPUT OF THE PROGRAM

```
Airtel signal=30%
Jio signal=8%
Call using Airtel network
```

```
Airtel signal=29%
Jio signal=92%
Call using Jio network
```

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NETWORKING

- Connecting computers electronically for the purpose of sharing information.
- Resources such as files, applications, printers, and software are common information shared in networking.
- Advantage: Security, efficiency, manageability, and cost-effectiveness as it allows collaboration between users in a wide range.
- Consists of hardware components such as computers that form the network infrastructure

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2001:1234:5678:2::/64

BSNL

JIO

2001:1234:5678:1::/64

2001:1234:5678:3::/64

Airtel

VI

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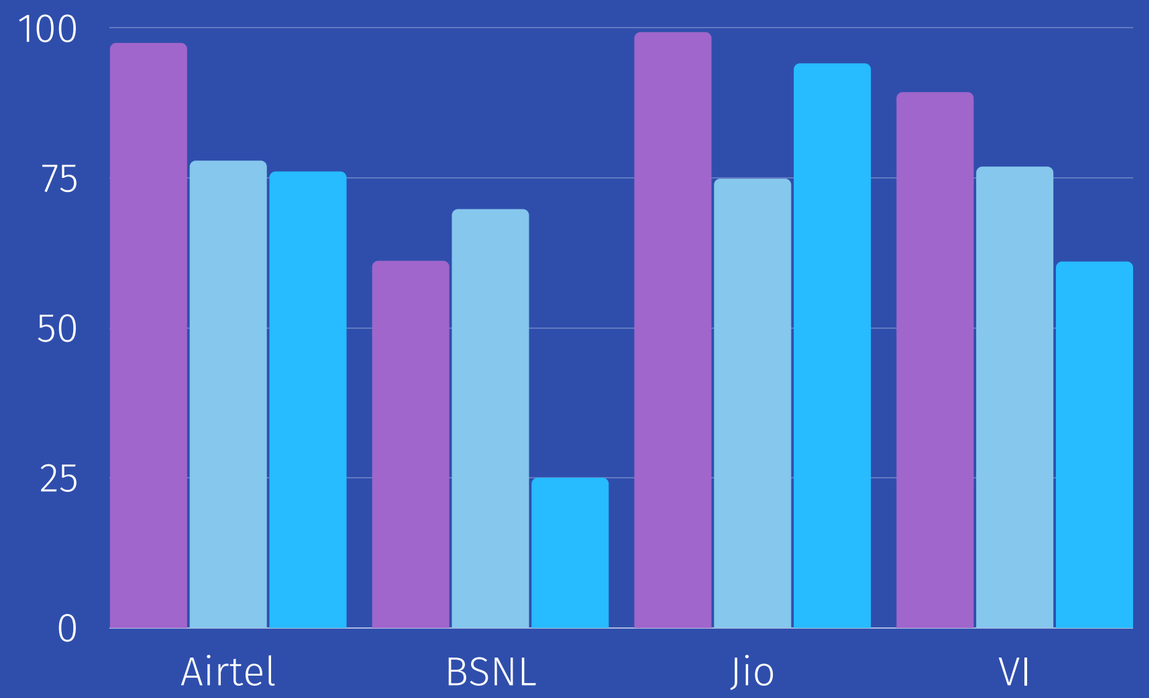
INDIA
Mobile Network Experience Report
March 2021

4G Availability

Voice Experience

4G Coverage



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DRAWBACKS

- Old phones which don't use gsm protocol
- When different signals are in the same strengths
- In remote regions where there aren't any towers at all.

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Thank you!

Any questions??