Practical No: 08

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Title:

Write a program to demonstrate template in c++.

Source Code:

1)

```cpp
#include<iostream>
using namespace std;
template<class a1,class a2>
class choice
{
public:
a1 num1;
a2 num2;


choice( a1 p,a2 q)
{
    num1=p;
    num2=q;

}
void display()
{

    cout<<"Average is
:"<<((num1+num2)/2);
}
```

```cpp
};
int main()
{
choice<int,float> choice1(4,6.0);
choice1.display();

choice<float,int> choice2(2.0,10);

 choice2.display();

return 0;
}
```

```cpp
2)
#include<iostream>
using namespace std;
template<class a1>
class choice
{
a1 a;
a1 b;
a1 c;
public:
choice(a1 p,a1 q,a1 s)
{
    a=p;
    b=q;
    c=s;
}
void display()
{
    cout<<"Average is
:"<<((a+b+c)/2);;
     //(a+b/2);
}
};
int main()
```

```cpp
{

choice<int>
choice1(4,6,4);
choice1.display();

choice<float>
choice2(2.0,10.0,10.0);

  choice2.display();


return 0;
}

3)
#include<iostream>
using namespace std;
template<class s>
void choice(s &a1,s &a2)
{
cout<<"Average is: ";
cout<<((a1+a2)/2);
}
int main()
{
int i1=2,i2=4;
float f1=3.6,f2=3.4;
choice(i1,i2);
choice(f1,f2);
//cout<<;
return 0;
}

4)
#include<iostream>
using namespace std;
template<class s,class p>
```

```cpp
void choice(s &a1,p &a2)
{
cout<<"Average is: ";
cout<<((a1+a2)/2);
}
int main()
{
int i1=2,i2=4;
float f1=3.6,f2=3.4;
choice(i1,i2);
choice(f1,f2);
//cout<<;
return 0;
}
```

End