

shahank

HAL18EC048

Modules 8 :- Templates, Exception & File

→ Function template :-

```
int main()
{
    int x = 7;
    int y = 11;
    cout << sum(x, y) << endl;
}
```

→ Function template with multiple

→ class template :-

```
template < class T1, T2 >
class pair {
private:
    T1 first, second;
public:
    pair(T1, T2);
    first(), second() {
    }
};
```

→ Template specialization :-

```
Exception: int motherAge = 29;
            int sonAge = 36;
            if (sonAge > motherAge) {
                throw "wrong age values";
            }
```

→ catching exception :

\* note on exception :-

→ Exception handling :-

```
int main () {
```

```
int num1;
```

```
cout << "enter the first number";
```

```
cin >> num1;
```

```
int num2;
```

```
cout << "enter the second number";
```

```
cin >> num2;
```

```
cout << "Result : " << num1 / num2;
```

```
}
```

→ Working with file:

opening a file:-

```
# include <iostream>
```

```
# include <fstream>
```

```
using namespace std;
```

```
int main () {
```

```
ofstream my file;
```

```
my file . open ("text.txt");
```

```
my file << "some text.\n";
```

```
}
```

→ closing a file: