Task 1:

```cpp
#include <iostream>

#include <string>

using namespace std;

int main()
{
    string var;
    cout << "Enter variable name: ";
    cin >> var;

    string keywords[] = {"int", "float", "double", "char", "return", "if", "else"};

    if (isdigit(var.at(0))) {
        cout << "Invalid variable name";
        return 0;
    }

    for (int i = 0; i < 7; i++) {
        if (var == keywords[i]) {
            cout << "Invalid variable name";
            return 0;
        }
    }
```

```cpp
    for (int i = 0; i < var.length(); i++) {

        char c = var.at(i);

        if (!(isalnum(c) || c == '_' || c == '$')) {

            cout << "Invalid variable name";

            return 0;

        }

    }


    cout << "Valid variable name";

    return 0;

}
```

Output:

```
Enter variable name: 1var
Invalid variable name
Process returned 0 (0x0)    execution time : 2.495 s
Press any key to continue.
```

Task 2:

```cpp
#include <iostream>

using namespace std;

int main()
{
    int a[]={10,20,30,40,50};
    int sum=0;
```

```cpp
    for(int i=0;i<5;i++){

        sum+=a[i];

    }


    cout<<"Average Value = "<<sum/5<<endl;


    return 0;

}
```

Output:

```
Average Value = 30

Process returned 0 (0x0)   execution time : 0.419 s
Press any key to continue.
```

Task 3:

```cpp
#include <iostream>


using namespace std;


int main()
{
    int a[]={7,-2,15,4,9};
    int min=a[0];


    for(int i=1;i<5;i++){
        if(a[i]<min){
```

```cpp
            min=a[i];

        }

    }


    cout<<"Minimum = "<<min<<endl;


    int max=a[0];


    for(int i=1;i<5;i++){

        if(a[i]>max){

            max=a[i];

        }

    }


    cout<<"Maximum = "<<max<<endl;


    return 0;

}
```

Output:

```
Minimum = -2
Maximum = 15

Process returned 0 (0x0)   execution time : 0.381 s
Press any key to continue.
```

Task 4:

```cpp
#include <iostream>
#include <string>

using namespace std;

int main()
{
    string firstName;
    string lastName;

    cout<<"Enter First Name: ";
    cin>>firstName;

    cout<<"Enter Last Name: ";
    cin>>lastName;

    cout<<"Full Name: "<<firstName<<" "<<lastName<<endl;

    return 0;
}
```

Output:

```
Enter First Name: Shakila
Enter Last Name: Rahman
Full Name: Shakila Rahman

Process returned 0 (0x0)   execution time : 26.307 s
Press any key to continue.
```

Task 5:

```cpp
#include <iostream>

#include <fstream>

using namespace std;


int main() {

    int n;

    cout << "Number of students: ";

    cin >> n;


    ofstream fout("students.txt");


    for (int i = 1; i <= n; i++) {

        string name;

        int marks;

        cout << "Student " << i << " name: ";

        cin >> name;

        cout << "Student " << i << " marks: ";

        cin >> marks;


        fout << name << " " << marks << endl;

    }


    fout.close();


    ifstream fin("students.txt");
```

```cpp
    string name;

    int marks;


    cout << "Data read from file: "<<endl;

    while (fin >> name >> marks) {

        cout << name << " " << marks << endl;

    }


    fin.close();

    return 0;

}
```

Output:

```
Number of students: 2
Student 1 name: Alice
Student 1 marks: 85
Student 2 name: Bob
Student 2 marks: 92
Data read from file:
Alice 85
Bob 92

Process returned 0 (0x0)   execution time : 20.887 s
Press any key to continue.
```