

Application 1

1.

```
1 | #include <iostream>
2 | using namespace std;
3 | int main()
4 | {
5 |     int a,b;
6 |     cout<<"input a and b\n";
7 |     cin>>a>>b;
8 |     b=a+b;
9 |     cout<<"a ="<<a<<"   b ="<<b<<endl;
10 |     system ("pause");
11 | }
```

2.

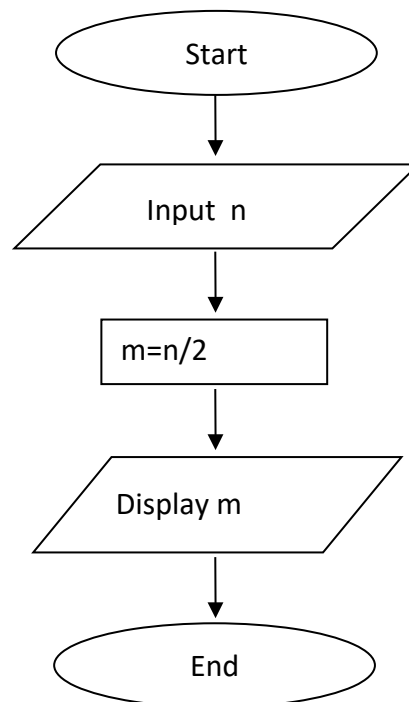
S1: Start

S2: Input n

S3: Set $m=n/2$

S4: Output m

S5: End



3.

```
1 | #include <iostream>
2 | using namespace std;
3 | int main()
4 | {
5 |     double a;
6 |     cout << "Enter a number" << endl;
7 |     cin>>a;
8 |     a=a-2;
9 |     cout<<"Your answer is "<<a;
10 |     return 0;
11 | }
12 |
```

4.

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      int a,b,c;
8      cout<<"input a, b and c\n";
9      cin>>a>>b>>c;
10     cout<<"Result= "<<a*b*c<<endl;
11     return 0;
12 }
13
```

5. `cout<<"Up to now we solved"<<endl;`

`cout<<"4 questions";`

`cout<<"Up to now we solved\n 4 questions";`

`#include<string>`

`string a=" Up to now we solved\n 4 questions";`

`cout<<a;`

6. `float a,b,c;`

`a=3.45; b=1.245;`

`c=a*b;`

`cout<<c;`

7.

```
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      float x,y;
8      x=12e7; // lower case "e" we use
9      y=36e8;
10     cout << x+y << endl;
11     return 0;
12 }
13
```

8.

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      bool b1,b2;
6      b1=true;
7      b2=false;
8      cout << "b1="<<b1<<" b2="<<b2<< endl;
9      return 0;
10 }
11
```

9. & 10.

```
1 | #include <iostream>
2 | using namespace std;
3 | int main()
4 | {
5 |     char c1='M', c2='E', c3='2', c4='4', c5='0';
6 |     cout <<c1<<c2<<c3<<c4<<c5<< endl;
7 |     string c6="ME240";
8 |     cout<<c6;
9 |     return 0;
10 | }
11 |
```

11.

```
1 | #include <iostream>
2 | using namespace std;
3 | int main()
4 | {
5 |     double PE, m, g=9.81, h;
6 |     cout << "Enter mass and height" << endl;
7 |     cin>>m>>h;
8 |     PE=m*g*h;
9 |     cout<<PE;
10 |     return 0;
11 | }
12 |
```

12.

```
1 | #include <iostream>
2 | using namespace std;
3 | int main()
4 | {
5 |     int w, h;
6 |     cout << "Enter width and height" <<
7 |         "of right triangle" << endl;
8 |     cin>>w>>h;
9 |     cout << "Area= " << w*h/2<< endl;
10 |     return 0;
11 | }
12 |
```

13.