

```
#include <iostream> //task 1|
using namespace std;

int main() {
int num = 10;
int* ptr;
ptr = &num;

cout<<"Value of num: " <<num<<endl;
cout<<"Address stored in ptr: " <<ptr<<endl;
cout<<"Value at the address stored in ptr: " <<*ptr<<endl;
return 0;
}
```

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Value of num: 10

Address stored in ptr: 0x6ffe04

Value at the address stored in ptr: 10

Process exited after 0.275 seconds with return value 0

Press any key to continue . . .

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Before swapping:

x = 10

y = 20

After swapping:

x = 20

y = 10

Process exited after 0.2772 seconds with return value 0
Press any key to continue . . .

```
1  #include <iostream> //task 2
2  using namespace std;
3
4  void swap(int*a,int*b)
5  {int temp=*a;
6    *a=*b;
7    *b=temp;}
8
9  int main()
10 {
11   int x=10;
12   int y=20;
13   cout<< "Before swapping:" << endl;
14   cout<< "x = " <<x<< endl;
15   cout<< "y = " <<y<< endl;
16
17   swap(&x,&y);
18
19   cout<<"After swapping:" <<endl;
20   cout<<"x = " <<x<<endl;
21   cout<<"y = " <<y<<endl;
22
23   return 0;
24 }
25
```

```
#include <iostream> //task 3
using namespace std;

int square(int numb) {
    return numb*numb;
}

int main() {
    int(*squarePtr)(int)=square;

    int numb;
    cout<<"Enter a number: ";
    cin>>numb;

    int result = squarePtr(numb);
    cout <<"Square of "<<numb<<" is: "<<result<<endl;
    return 0;
}
```



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Enter a number: 7
Square of 7 is: 49

Process exited after 2.535 seconds with return value 0
Press any key to continue . . . |

```
#include <iostream> //task 4
using namespace std;
```

```
int main() {
    int var=5;
    int*pointVar=&var;

    cout<<"Original value of var: " <<var<<endl;
    cout<<"Address of var: " <<&var<<endl;
    cout<<"Value stored in pointer pointVar: " <<pointVar<< endl;
    cout<<"Content of the address pointed to by pointVar: "<<*pointVar<<endl;

    cout<<"Enter a new value for var: ";
    cin>>*pointVar;
    cout <<"Updated value of var: " <<var<< endl;
    return 0;
}
```

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▼

Original value of var: 5

Address of var: 0x6ffe04

Value stored in pointer pointVar: 0x6ffe04

Content of the address pointed to by pointVar: 5

Enter a new value for var: