```
#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;
}</pre>
```

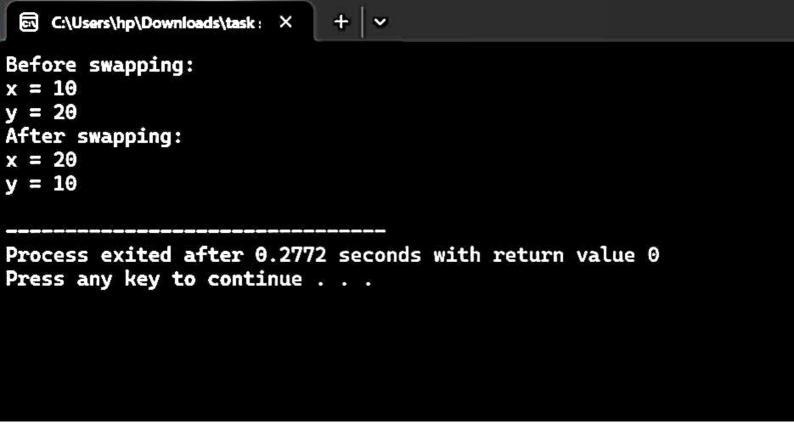
© C:\Users\hp\Downloads\task · × + -

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 . . .



```
#include <iostream> //task 2
1
     using namespace std;
2
3
     void swap(int*a,int*b)
4
    {int temp=*a;
5 -
      *a=*b;
6
7
      *b=temp;}
8
     int main()
9
10 -
     int x=10;
11
12
     int y=20;
     cout<< "Before swapping:" << endl;
13
     cout<< "x = " <<x<< endl;
14
     cout<< "y = " <<y<< endl;
15
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;
}</pre>
```

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;
}</pre>
```



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: