

1. #include<iostream>



PROGRAMS FOR POINTERS

```
using namespace std;
void cal(int x)
  x=x+10;
}
int main()
  int x=10;
  cal(x);
  cout<<x;
}
    2. #include<iostream>
using namespace std;
int main() {
 int arr[20], i, j, k, size;
 cout<<"Enter any size of an array: ";
 cin>>size:
 cout<<endl<<"Accept numbers";</pre>
 for (i = 0; i < size; i++)
   cin>>arr[i];
 cout<<"Array with Unique list: ";
 for (i = 0; i < size; i++) {
   for (j = i + 1; j < size;) {
     if (arr[j] == arr[i]) {
      for (k = j; k < size; k++) {
        arr[k] = arr[k + 1];
      }
      size--;
     } else
      j++;
   }}
 for (i = 0; i < size; i++) {
   cout<<arr[i];
 return (0);
}
```

```
3. #include<iostream>
using namespace std;
int main()
int *p,x=40;
p=&x;
cout<<"add of x="<<&x<<endl<<"and p="<<p;
*p="<<*p;
}
   4. #include <iostream>
using namespace std;
int main()
{
char a='b';
 char *ptr;
  cout<<"Original Value: "<<a;</pre>
 ptr=&a;
 cout<<endl<<"Address of a: "<<*ptr;</pre>
 cout<<endl<<"Original value : "<<a<endl<<"Pointer value: "<<*ptr;</pre>
 *ptr='r';
cout<<endl<<"Changed value : "<<a;</pre>
return 0;
}
   5. #include <iostream>
  #include<conio.h>
  using namespace std;
  void DoIt(int *num)
      {
        *num=*num*2;
      }
  int main()
        {
        int number=8;
        DoIt(&number);
        cout<<" Value of num: "<<number;</pre>
        getch();
  return 0;
```

```
6. #include <iostream>
#include <conio.h>
using namespace std;
   int main()
   int ArrayA[3];//={1,2,3};
   int i;
   int *ptr;
   cout<<"Enter values for array: ";</pre>
   for(i=0;i<=2;i++)
   cin>>ArrayA[i];
   ptr=ArrayA;
        for(i=0;i<=2;i++)
   cout<<"address: "<<ptr<<" - array value: "<<*ptr;</pre>
   ptr++;
  }
  }
   7. #include <iostream>
#include <conio.h>
using namespace std;
int main()
{
  int x;
             /* A normal integer*/
            /* A pointer to an integer ("*p" is an integer, so p
  int *p;
       must be a pointer to an integer) */
             /* Read it, "assign the address of x to p" */
  p = &x;
  cout<<"Enter value for x: ";</pre>
             /* Put a value in x, we could also use p here */
  cin>>x:
  cout<<*p; /* Note the use of the * to get the value */
}
   8. #include<iostream>
using namespace std;
int main()
{
int *p,x=10;
int **y;
p=&x;
y=&p;
cout<<"&x="<<&x<<endl<<"p="<<p<endl<<"*y="<<*y;
cout<<"x="<<x<endl<<"*p="<<*p<<endl<<"**y="<<**y;
cout<<"&x="<<&x<<endl;
}
```