```
LAB - 3
```

91. Wap to find all arms trong no from 100 to 999 by using function.

```
#include <ios tream>
using names pace std;
int main(void)

int i = 100, mdv, sum, temp, thum;
cout << "The 3-digit Arms trong numbers are:";
for (i = 100; i <= 999; i++)

thum = i;
sum = 0;
while (thum > 0)

if mdv = thum % 10;
temp = mdv * mdv * mdv;
sum = temp + sum;
thum = thum / 10;

if (i == sum)
cout << sum << endl;

}

The 3-digit Armstrong numbers are: 153
370
371
407
```

92. WAP to display the simple interest by using function given p, t, r.

```
#include <ios tream>
using namespace std;
float interest(int P, float R, int N)
  float SI:
  SI = P * R * N / 100.0;
  return SI;
int main()
  int b, n, i, ne is
  float 8, Zi
  cout << "No. of SI you want to calculate:" << endl;
  cin >> nsi
  for (i = 1; i <= nsi; i++)
    cout << " Enter Info for Set" << i;
    cout << "\n -----
    cout << "Enter Principal Amount:";
    cin >> p
    cout << "Enter Interest-Rate:";
    cin >> vi
    cout << "Enter Time Period:";
```

Wap to swap 2 no by using call by value, call by address and call by reference. 93. #include <ios tream> using names pace std; void swap(int a, int b) int temps temp = a: a = bb = temp; void swapref(int &c, int &d) int temps temp = c; c - did = temp; void swapAdd(int *m, int *n) int temp = *m; *M = *M* *n = temp; int main() int a = 10; int b = 20; int c = 30; int d = 40; int e = 50; int f = 60; cout << "Before swapping the values in main a = " << a << " b = " << b << endl; cout << "Before swapping the values in main a = " << c << " b = " << d << endl; cout << "Before swapping the values in main a = " << e << " b = " << f << endl; cout << "--ewap(a,b);

```
cout << "After swapping values in main a= " << a<< " b= " << b<< endl; cout << "After swapping values in main a= " << c<< " b= " << d<< endl; swapref(c, d); cout << "After swapping values in main a= " << c< " b= " << d<< endl; cout << " b= " << d< endl; swapAdd(ke, kf); cout < "After swapping values in main a= 10 b = 20 Before swapping the values in main a= 30 b = 40 Before swapping the values in main a= 30 b = 60 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 20 Before swapping values in main a= 10 b = 30 Section of the control of the
```

```
04. Wap to add two no by using call by value, call by reference and call by address.
    #include <ios tream>
   using names pace std;
   void Add(int a, int b)
      cout << endl;
    void Addref(int &c, int &d)
     cout << endl;
    void AddAdd(int *m, int *n)
      cout <<endl;
    int main()
      int a = 10
      int b = 20;
      int c = 30;
      int d = 40;
      inte = 50;
      int f = 60;
      cout << "Before Adding the values in main a = " << a << " b = " << b << endl;
      cout << "Before Adding the values in main a = " << c << " b = " << d << endl;
      cout << "Before Adding the values in main a = " << e << " b = " << f << endl;
      cout << "--
                    -----Call by Value-----" << end!
      Add(a,b);
      cout << "After Adding values in main a + b = " << a + b << endl;
      cout << "---
                   -------Call by refrence------" << endl;
      Addref(c,d);
      cout << "After Adding values in main c + d = " << c + d << endl;
                      -----Call by Address-----" << endl;
      AddAdd(&e, &f);
      cout << "After Adding values in main e + f = " << e + f << endl;
```

95 Wap to add two no by using two reference variable.

```
#include <ios tream>
    using names pace std;
    int add Two Numbers (int *, int *);
    int main()
      int fno, sno, sum;
      cout << "\n\n Add two numbers using call by reference:\n";
      cout << " Input the first number: ";
      cin >> fno:
      cout << "Input the second number:";
      cin >> & no:
      sum = add TwoNumbers (&fno, &sno);
      cout<" The sum of "<< fno << " and "<< sno << " is "<< sum << "\n\n";
    int add Two Numbers (int *n1, int *n2)
      int sum;
      sum = *n1 + *n2;
      return sum;
      Add two numbers using call by reference:
      Input the first number : 15
Input the second number : 18
      The sum of 15 and 18 is 33
06. Wap sort the array elements as cending order in C++ by using both selection and bubble sort.
    #include <ios tream>
    using names pace std;
    void evap(int *xp, int *yp)
      int temp = *xp;
      *xp = *yp;
      *yp = temp;
    void bubble Sort(int arr[], int n)
      inti, ji
      for (i = 0; i < n - 1; i + 1)
         for (j = 0; j < n - i - 1; jet)
           if(arr[j] > arr[j+1])
             ewap(karr[j], karr[j+1]);
    void selection Sort(int arr[], int n)
```

```
inti, j, min_idx;
      for (i = 0; i < n - 1; i++)
        min idx = i;
        for (j = i + 1; j < n; j++)
           if (arr[j] < arr[min_idx])
             min_idx = j;
         ewap(karr(min idx), karr(i));
    void printArray(int arr(), int size)
      inti
      for (i = 0; i < size; i++)
         cout << arr[i] << " ";
      cout << endl;
    int main()
      int arr[] = {64, 34, 25, 12, 22, 11, 90};
      int arr2[] = {10, 30, 5, 4, 102, 1, 90};
      int n = sizeof(arr) / sizeof(arr(0));
      bubble Sort(arr, n);
      cout << "Sorted array using bubble sort: \n";
      printArray(arr, n);
      selection Sort(arr2, n);
      cout << "Sorted array using selection sort: \n";
      printArray(arr2, n);
      return O;
    Sorted array using bubble sort:
    11 12 22 25 34 64 90
    Sorted array using selection sort:
    1 4 5 10 30 90 102
97. WAP function will return max no. using arr.
    #include <ios tream>
    using namespace std;
    int largest(int arr[], int n)
      inti
      int max = arr(0);
      for (i = 1; i < n; i++)
        if (arr(i) > max)
           max = arr[i];
      return max;
    int main()
      int arr[] = {10, 324, 45, 90, 98};
      int n = sizeof(arr) / sizeof(arr(0));
      cout << "Largest in given array is "<< largestlarr, n);
      return O;
```

PS C \Users\KIIT\Documents\OOPS LAB\OOPS LAB 3> cd "c:\Users\KIIT\Documents\O`PS L Largest in given array is 324
PS C \Users\KIIT\Documents\OOPS LAB\OOPS LAB 3> [