```
Assignment (5)
    write a function to find the greatest number from the given
      array of any Size (TSRS)
         #include < stdio-lo
           int fun (int (), int);
          int main()
            int a [20], b;
            Printf ("Enter Size of avray");
            Scomf (" x, d", 4b);
            Printf ("hneatest number is = /d", fon (a, b));
            returno;
          int fun (int b[], int n)
             inti;
             Printf ("enter % d numbers / m");
             for (1=0; i(n; 14+)
              scomf ("xd", 4b[i]);
              if (b(0)<b[i))
               b(0)=b(i);
         > reformo;
2) write a program function to find the smallest number from the jiven
    array of any Size (75 RS)
        #tinclude (stdio, h)
         int fun (int ( ], int);
         int main()
            inta[20],b;
            Printf ("Enter Size of array");
            Scanf (" ", &b);
           Printf ("Greatest number is = d", For (a, b));
            return 0;
          intfun (intbC), int n)
          f inti;
            Printf ("enter xid number / n');
            for(i=0; icn; i++)
```

```
Scom F (" >d", 4b[i]);
             if (bCo] > bCij)
                 b (0) < b(i);
3 write a function to sort an averag of any size (TSRS)
           #include < stdio. h>
            intfun (int (), int);
            int main ()
               int a (20), b, i;
               Printf ("enter Size of away = ");
               Scomf ("xd", lb);
               a(b) = Aun (a, b);
               for (i=0; icb; i++)
                  Printf ("xd", 9[7])
                return o;
             intfun (intb (), intn)
            2
                int i, j, t;
                Printf ("enter xd mumber (n").
                for (i=0; i<n; (++)
                       b [j+1] = b(j);
                       b(j)=+;
```

```
(4) write a program function to notate an away by n position is d
     direction. The dis an indicative of value left or Right
  #tindude (stdio.h)
  # define RIGHT 1
 # define LETTO
  boid inpot (int (), int);
  Void notate (inta(), int, int, int);
  Void display (int[], int);
  int main()
  4
   int acros, n, Ror;
  Poss # ("Enter a number of array=");
    intput (a,n);
    Printf ("Enter the number of natotion =");
    Scarf ("xd", &ROT)"
    notate (a, n, RIGHT, ROT);
    display (9, n)
  void input (int ac), int n)
       Prints ("Enter > d numbers of averay - \n",n);
       for (1=0; Kn; (++)
        Scarf (">d ", 40(1);
     void notate (int assist n, int din, int shift-count)
         int temp, i;
        if (dln == BGHT)
          while (shift-Count)
           temp = a(n-1);
            for (i=n-1)170/1-)
            a [o] = temp;
        else
           while (Shift-Count)
           femp=a(a);
            For (1=0; i<=n-2; i++)
            (aci) = aci+1);
            acn-1] = temp;
           shift_count -- )
      vaid display linta (), inta)
      for (1=0; i<n; i++)
       Pn++ (">d", a(1));
```

```
a function to find the first occurrence of adjacent duplicate value in the
Ruction has no return the value of the element.
        # include < Stdio. h)
        void duplicate (int[], int);
        vaid input (int (), int);
        inti)
         int main ()
           int a(20),n;
           Printf ("Goter the size of corray = ");
           Scanf ("/d", (n);
           intput (ain);
           Prints ("first occurrence of adjacent duplicate value in the away is = 1,d", dupliate (a,m));
            returno;
          boid intput (inta(), intan)
            Printf ("Enter the value of >d avroy - In", n);
            For (1=0; i(n; i++))
               Scmf ("xd", 40(1));
            int duplicate (int a (), intn)
               int 1%
               for (i=0; i<n-1; i++)
                Por G= [+1)j(n), i++)
               (if (ali) == a(1))
                1 setonna[i];
           if (n=1 == i)
             return o'
                         in C to need number of value in an array and display it
1 wite a function
      in reverse order.
  #include (stoho.h)
                                                             Laid reverse (int b(), int m)
   void intput (int(), int);
    void reverse (int(), int);
   void display (in+(), in+);
                                                                 for(1:0; 1<m/2; 1++)
    inti;
                                                                 X=b[m-1-1];
    intmain()
                                                                  b[m+i]e
     {
                                                                  b(m-1-1)=b(1);
        int a (20), n'
                                                                  b(i) = x)
         Prints ("Enter the number of averay = ");
         Sconf ("xd", An);
          intput (a,n);
                                                             Void display (int bC), int m)
           reverse (9,n);
                                                               prints ("After reverse away 1's=");
          display (a,n);
                                                              By (1-0; icm; itt)
           sctusno;
                                                             pritt(",d", b(i);
       void input (int b(), int m)
          prints ("Inter > d number of array (n", m);
         for (i=0, i< m; i++)
sonf (">d", 4b(i));
```

```
1 write a function in a to count a total number of duplicate elements in an array
      Itindude ( Stdio. 1)
       Void imput (int (), int);
       int duplicate (int (7, int);
       int diplicate (int a(), int n)
          int 1,3, d=0;
          Ror(1:0; ich -1; it)
            Por (j=14) j(n; j++)
                                                            Pmit ("Enter Size of array = ")
              if (a(i) = =a(i))
                                                            Scort (" 2, 1", 4 m);
                det;
                                                             input (a,n);
                bronk
                                                           Printfl"All deplicatellement in thes
                                                                  array is = "d", duplicate (a m)),
          setuma)
         void input (inta(), int n)
           int i
           Printf("Enter > d numbers - \n");
           For (i=0) icn; i++)
            Scanf("/d",40(i));
        int main ()
   write a function in c to print all enique elements in an avoy.
      #include (stdiah)
       void input (int (), int, int (3);
      void unique (int (), int, int());
       int main ()
         int n, a (20), arr [20];
         Printf ("fater the size of avay= ");
         sconf (" /d ", 4n);
         input (a, n, avor)
         brille (a, n, av);
         setum o'
         void in put (inteac) into int m, int aron (3)
                                                          if (annli) ==0)
                                                            Printf (">d", a(i));
           int i?
           Printh ("Enter /d number - M");
           For ( i= 0 ) K=n-1 i++)
                                                          netum 0%
            Sonf ("X1", 4a(i));
            ars (i)=1)
           vaid linta(), int n, intan())
            inti, j'
            for (i =0; i < =n-1; itt)
           (if (an(i) == 0)
```

```
1 write a function in c to merge two arrays of the same size stated in
         descending orders.
H
           #include(soldio.h)
            void input (int[), int);
            vaid input 2 (int(), int);
            int merz (intC), intC), intC), int , int);
            void Sorted (int (), int);
            inti;
            int main()
               int n1, n2, a(20), b(20), c(40), 73, n1x;
              Printf ("Enter the size of 1'st away =");
              Sconf (" >d", 4n1);
              input ((a,n));
              Printf ("onter the size of 2'nd amay = ");
              Scanf ("5,d", 2n2);
              n3 = n1 + n2;
              input 2 (binz);
              merz (9,6, c, n2, n3);
              sosted (c, n3);
              returno;
             vaid input 1 (intacz, intal)
               Printf ("forter %d numbers for 1'8+ among |n", n1);
              Par(i=0; i<n) /1++)
               Scont (" // 1", 49(1));
              Printf (
             int menz (int a(), intb(), int cognit nz, int n3);
             (intil)
               intk=0;
                 For (i=0) i(n3; i++)
                  if (17 n2 -1)
                   c(i) =a(k);
                  K++;
                3
                 else
                   cci) = b(i);
                rutum C(1);
              vaid sorted (int c(), intn3)
               in+ 1/1/
              Printl("After merging two arroy's of the same size sorted in decknowing of day is-In");
            For (i=i; i'(n3; i++)
              for (1=0; 1(m3-1; 1+4)
                                                      For (3=0/3< n3/3++)
              ( if ( e ( s ) < e ( s +1))
                                                      Printf (">d", c(j));
               ( 1=c(j))
                  C(1) = ((1+1))
                 (C)+1)=1)
            3
```

```
write a fruction in C to court the prepuncy of each element of an array.
    #include (Stdio.h)
     void inped (int (), int);
     void frequency (int(), int(), int();
    Lbidoidput (Int(), int(), intn);
     int (;
     Int main()
        int n, 9 (20), b(20);
        printf ("Enter the size of average = ");
       sconf (" >d", dn); input (a,m);
        frequency (a,bit);
        output (a,b,n);
        returno;
     void input (intal), intri)
         prints ("Enter > d number (n", n);
        for (i=0) i <n', i++)
         sout (" Ted" Racis);
    Void Frequency (intal), intb(), int n)
         into)
         for(1=0;1×n; i++)
            int C=1)
            if (aci) !=-1)
             For (jait) kniftt)
            f if (ali) == a [i])
               acj)=-1;
          b Ci]=c)
     void output (intaC], int b(), intn)
      for (i =0; i <n; i++)
    1 if (a Ci] != -1)
        printf (" Number 1/2 d is = 2d \n", acis, beis);
```

(b)