Week 6

GE23131 - Programming Using C

One-Dimensional Arrays

```
Program: Check pair with difference k
             e addio ha
# include
int maines
  int 1;
  scanf ("+ od", ft);
   while (4-+)5
      int n;
       scanl(" oled", en);
       int a Co];
        for Cint i= 0; icn; itt) {
            sconf ("rod", &aci]);
          int k)
          scounf("1).d", lk);
          int flog = 0;
           for (int 1=0; i=n; i++)}
              for cint j= @ i + 1; j < n; j + + ) {
    if (a Ci) - a Cj] == k ||a Cj] - a [i] == k)
                   feagel; bereak; 3
              if (flag) becak; 3
              print (" of dln", flag),
 Sample input
 31 35
Sample output
```

-5

1

```
Program: Chocolates
# include estatio h>
int main!)
  int ti
  scortf("%d", et); while (t--) {
       int C=0, n;
        scant ( "olod", &n);
        for Cinti=0; (c=n;i++) {
    if (i%2!=0) C=C+i;
         3 pecintf(" 10 d \n", ();
Sample input
3
2
3
Sample Output
4
```

U

```
Program: Football Scores
thinglude estatio ha
int maine)
 ; and, si, 12 thi
 scanf ( "olod", es 1);
  int tacs1);
  for (int i=0; i < s1; i++)
  scanf ("old", & ta (1));
  scanf ("10d", 852);
  int Hots2];
  for (int i = 0; i2 12; r++)
     s coun & ( " of od ", e +6[i]);
  for (int j=0; j esz; j++)
    5
       ans=0;
       for (inti=0; i 251; i++){
         if (+6[j] >= ta[i])
         ans ++;
       3 printf ("ded (n", ans);
Sample Input
4
235
sample Output
 2
 4
```