```
11.
           int main()
              int a[5], i;
              for (i = 0; i < 5; i++)
                 a[i] = i * i;
              for (i = 0; i < 5; i++)
                 printf("a[%d] = %d\n", i, a[i]);
              for (i = 1; i < 5; i++)
                 a[i] += i;
              for (i=0; i<5; i++)
                 printf("a[%d] = %d\n", i, a[i]);
              }
           }
w/ pragams:
              1. int main()
              2. {
                    int a[5], i;
                       #pragma omp parallel
              5.
                       {
              6.
                           #pragma omp for
                           for (i = 0; i < 5; i++)
              7.
              8.
                              a[i] = i * i;
              9.
              10.
                              #pragma omp master
              11.
                              for (i = 0; i < 5; i++)
              12.
                                 printf("a[%d] = %d\n", i, a[i]);
              13.
              14.
                              #pragma omp for
              15.
                              for (i = 1; i < 5; i++)
              16.
                                 a[i] += i;
              17.
              18.
                              #pragma omp master
```

for (i=0; i<5; i++)

19.

```
20.
                     printf("a[%d] = %d\n", i, a[i]);
  21.
             }
  22. }
Gives the following output:
a[0] = 0
a[1] = 1
a[2] = 6
a[3] = 12
a[4] = 20
a[0] = 0
a[1] = 2
a[2] = 6
a[3] = 12
a[4] = 20
```

12.

```
#include <stdio.h>
#include <omp.h>

int main()
{
    int i, maxv, minv, sum;
    int a[10];

    for(i=0; i<10; i++)
    {
        a[i] = rand()%1000;
        printf("%d\n", a[i]);
    }

    maxv = a[0]; minv = a[0]; sum = 0;

    for(i=0; i<10; i++)
    {
        if (maxv<a[i])
            maxv = a[i];
        results the state of th
```

```
if (minv>a[i])
                    minv = a[i];
                 sum += a[i];
              }
              printf("max:%d\n", maxv);
              printf("min:%d\n", minv);
              printf("sum:%d\n", sum);
              return 0;
13.
           #include <stdio.h>
           #include <omp.h>
           int main()
              omp set num threads(4);
              int i = 0;
              #pragma omp parallel
                 #pragma omp single
                    #pragma omp task
                          printf("Am I tasking?...\n");
                    }
              }
14.
           #include <stdio.h>
           #include <omp.h>
           #include <math.h>
           int main()
```

```
int n=0, nMax = 1000;
float x=0, y, tempY;

for(n=0; n<nMax; n++)
{
   tempY = sin(x)/(x+1);
   y = y + tempY*tempY;
   x += .01;
}

printf("Final Y:%f\n", y);</pre>
```