

3. Selection Sort. [Without mod].

#include <stdio.h>

#include <time.h>

void sorting (int m[], int n);

int main()

{

int n, i;

printf("Please Enter number of elements : \n");

scanf ("%d", &n);

int m[n];

printf("Enter the elements : \n");

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

{

scanf ("%d", &m[i]);

}

clock_t t;

t = clock();

sorting (m, n);

t = clock() - t;

double time_taken = ((double)t / CLOCKS_PER_SEC);

printf("Sort function takes %f second \n", time_taken);

}

void sorting (int m[], int n)

{

int i, j, temp, pos, small;

for (i=0; i<n-1; i++)

{ for (j=i+1; j<n; j++)

{

small = m[j];

pos = j;

(1)

}

```
if (m[j] < small)
{
    small = m[j];
    temp = m[i];
    m[i] = m[j];
    m[j] = temp;
    pos = j;
}
}
}
printf("Result : \n");
for (i = 0; i < n; i++)
{
    printf("%d \n", m[i]);
}
}
```

C:\Users\Saishir Kanjilkar\Documents\cblocks\bin\Debug\os.exe

Please Enter number of elements :

3

Enter the elements :

999

66

3

Result :

3

66

999

Sort function takes 0.002000 seconds

Process returned 0 (0x0) execution time : 9.802 s

Press any key to continue.