

Display the CPU time for the current processor.

e. Store the CPU time in the cpu array at index i. Step 7: Set max as the first element of the cpu array.

Step 8:Start a loop from 0 to p1-1:

a.

If the CPU time at index i is less than or equal to max, update max to the current CPU time.

Step 9: Display the processor with the lowest execution time (max).

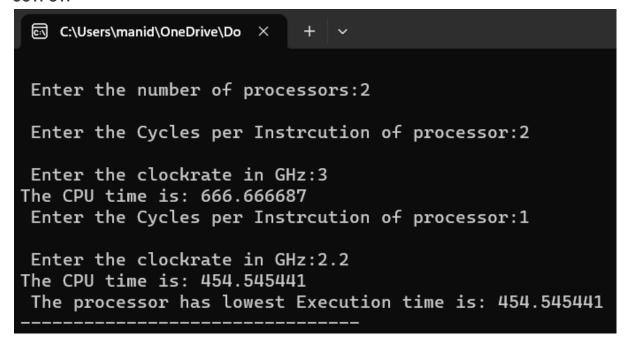
Step 10: Exit the program.

## PROGRAM:

```
#include <stdio.h>
Int main()
 float cr;
int p,p1,i;
float cpu[5];
float cpi,ct,max;
int n=1000;
for(i=0;i<=4;i++)
{
cpu[5]=0;
printf("\n Enter the number of processors:");
scanf("%d",&p);
p1=p;
for(i=0;i<p;i++)
printf("\n Enter the Cycles per Instrcution of processor:");
scanf("%f",&cpi);
printf("\n Enter the clockrate in GHz:");
scanf("%f",&cr);
ct=1000*cpi/cr;
printf("The CPU time is: %f",ct);
```

```
cpu[i]=ct;
max=cpu[0];
for(i=0;i<p1;i++)
if(cpu[i]<=max)
max=cpu[i];
printf("\n The processor has lowest Execution time is: %f ", max);
return 0;
INPUT:
C:\Users\manid\OneDrive\Documents\cpu performancme.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
                                                              44 8
                                  a 🗗 🔳
           (globals)
Project Classes Debug
                      cpu performancme.cpp
                            #include <stdio.h>
                       1
                       2
                            int main()
                       3 🖃
                       4
                            float cr;
                       5
                            int p,p1,i;
                       6
                            float cpu[5];
                       7
                            float cpi,ct,max;
                           int n=1000;
                       8
                       9
                            for(i=0;i<=4;i++)
                      10
                      11
                      12
                      13
                           printf("\n Enter the number of processors:");
                            scanf("%d",&p);
                      14
                      15
                            p1=p;
                      16
                            for(i=0;i<p;i++)
                      17 🖃
                      18
                            printf("\n Enter the Cycles per Instrcution of processor:");
                            scanf("%f",&cpi);
                      19
                           printf("\n Enter the clockrate in GHz:");
scanf("%f",&cr);
                      20
                      21
                            ct=1000*cpi/cr;
                      22
                            printf("The CPU time is: %f",ct);
                      23
                      24
                            cpu[i]=ct;
                      25
                           max=cpu[0];
                      26
                      27
                            for(i=0;i<p1;i++)
                      28
                      29
                           if(cpu[i]<=max)
                      30
                           max=cpu[i];
                      31
                      32
                           printf("\n The processor has lowest Execution time is: %f ", max);
                      33
```

## OUTPUT:



**RESULT:** Thus the program was executed successfully using DevC++.