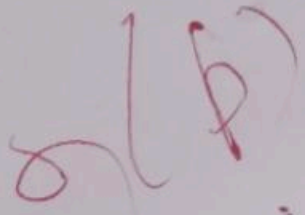
=> Program - 2.

Round Robin.

```
#include <stdio.h>
#include <conio.h>
int main(){
int i, j, n, bu[10], wa[10], tat[10], t, ct[10], at[10], max;
float awt=0, att=0, temp=0;
Printf("Enter the no of processes:");
Scanf("%d", &n);
for(i=0; i<n; i++)
Printf("Enter Arrival[%d]:", i+1);
Scanf("%d", &at[i]);
Printf("Enter Burst[%d]:", i+1);
Scanf("%d", &bu[i]);
ct[i]=bu[i];
Printf("\nEnter the size of time slice:");
Scanf("%d", &t);
max=bu[0];
for(i=1; i<n; i++){
if(max<bu[i])
```

```
max = bu[i]
}
for (j=0; j<(max/t)+1; j++)
{
for (i=0; i<n; i++)
{
if (bu[i] != 0){
if (bu[i] < t)
{
tat[i] = temp + su[i];
temp = temp + bu[i];
bu[i] = 0;
}
else{
bu[i] = bu[i] - t;
temp = temp + t;
}}}
for (i=0; i<n; i++){
wa[i] = tat[i] - ct[i];
att += tat[i];
awt += wa[i];
}
Printf("\n the avg TAT %f", att/n);
Printf(" the avg wt %f", awt/n);
Printf("\n\n Process \t Arrival time \t Burst \t
waiting \t TAT\n");
for (i=0; i<n; i++)
```

```
    }
Printf("%d\t%d\t%d\t%d\t%d\n",
    i+1, at[i], ct[i], wt[i], tat[i]);
    }
    getch();
    return 0;
}
```



Priority -

```
#include <stdio.h>
#include <conio.h>
  int main()
  {
  int p[20], bt[20], Pr[20], wt[20], tat[20],
      at[20], i, k, n, temp;
  float wtavg, tatavg;
    Printf("Enter no of process & ");
    Scanf("%d", &n);
    for (i=0; i<n; i++) {
      P[i]=i;
  Printf("Enter arrival, burst & priority %d %d %d", &at[i], &bt[i], &pri[i]
  }
for (i=0; i<n; i++)
    {
  for (k=0+1; k<n; k++)
      }
  if [Pri[i] > Pri[k]]
    temp=p[i];
    P[i] = P[k]
    P[k] = temp;
```

```
        temp = bt[i];
        bt[i] = bt[k];
        bt[k] = temp;

        temp = Pri[i];
        Pri[i] = Pri[k];
        Pri[k] = temp;

        temp = at[i];
        at[i] = at[k];
        at[k] = temp;
      }
    }

    wt_avg = wt[0] = 0;
    tat_avg = tat[0] = bt[0];
    for (i=1; i<n; i++) {
    wt[i] = wt[i-1] + bt[i-1] - at[i];
    tat[i] = tat[i-1] + bt[i] - at[i];

      wt_avg = wt_avg + wt[i];
      tat_avg = tat_avg + tat[i];
    }

Printf("Process \t\t Arrival \t Priority \t Burst \t
      Waiting \t turn around time");
      for(i=0; i<n; i++)
```

```
}
printf("\n%d\t\t %d\t\t%d\t\t%d\t\t%d\t\t%d", p[i], at[i], pri[i], st[i], wt[i], tat avg \n);

Print f(" \n Average wait time time %f" wt avg \n);
Print f("\n Average tAT %f", tat avg \n);
getch();
return 0;
}.
```

Result
Enter the no of Process - 4
Enter details of Process 1:

BT : 4
Prt : 13
AT = 0

Enter detail of Process 2

BT - 3
Prt - 4
AT - 1

P3 -

BT -3
Prt -6
AT -0

P4 -

BT : 5
Prt -5
AT -3

Select Scheduling Algorithm

1) Non Preemptive
2) Preemptive.

Enter your choice - 2

GC.

P1 | P2 | P4 | P3

Process	BT	Prt	AT	WT	TAT
1	4	3	0		32
2	3	4	1		32
3	3	6	2		32
4	5	5	3		32

AWT - 4.25

ATAT - 8.00