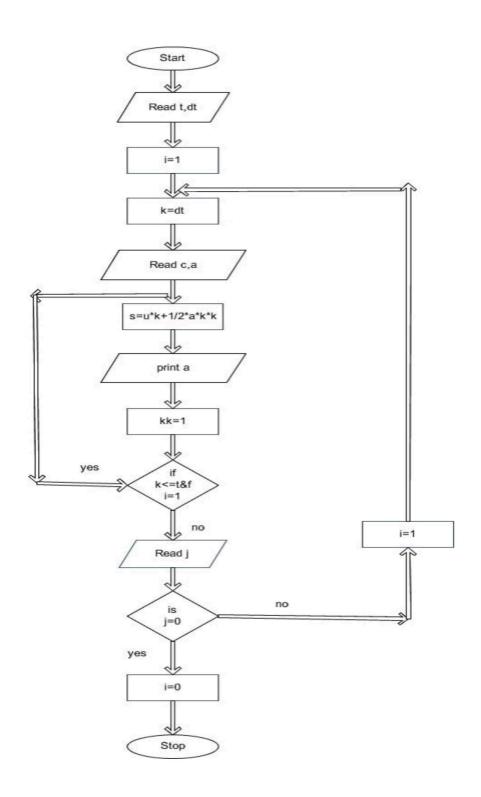
```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{ int i, n, sec; float d, u, a; clrscr();
printf("Enter the no. of intervals\n");
scanf("%d", &n); for(i = 1; i <= n; i++)
 {
   printf("interval: %d \n", i); printf("Enter
the time in seconds \n"); scanf("%d",&sec);
printf("Enter the velocity \n"); scanf("%f",
&u):
        printf("Enter the acceleration \n");
scanf("%f", &a); d= d + (u * sec + (a *
(pow(sec, 2))) / 2);
 printf("Total distance travelled is %.2f", d);
getch(); }
LOGIC:
```

Algorithm:

Flowchart:



```
Run
                O Debug
                         -510p
                                        M Save
main c
  1 #include <stdio.h>
 #include <stdlib.h
#include <ctype.h>
      #include <stdlib.h>
         float s1,s2,s,u,a;
          printf("number of times you want to perform ");
          scanf("%d",&n);
  170
          1
  printf("\n enter the inital velocity in meters per second:");
  14
              scanf("%f",&u);
  15
              printf("\n enter the acceleration in meter per second square:");
              scanf("%f",&a);
  16
  17
              printf("\n enter the lower time interval in seconds:");
  13
              scanf("%d",&t1);
 19
20
21
22
23
24
25
              printf("\n enter the upper time interval in seconds:");
              scanf("%d",&t2);
              s1=(u+t1)+((a*t1*t1)/2);
              s2=(u*t2)+((a*t2*t2)/2);
              5=52-51;
              printf("\n the distance travelled for the given time interval is %.2f meter\n",s)
              26
  27
  28
          return 0;
  29 }
                                                                    input
 V / 9
number of times you want to perform
enter the inital velocity in meters per second:12
enter the acceleration in meter per second square: 30
enter the lower time interval in seconds:40
enter the upper time interval in seconds:50
the distance travelled for the given time interval is 14048.00 meter
...Program finished with exit code 0
Press ENTER to exit console.
```