

7.POPULATE AN ARRAY WITH HEIGHT OF PERSONS AND FIND HOW MANY ARE ABOVE AVERAGE HEIGHT

Aim:

Write a c program to find how many persons are above average height.

Algorithm:

Step 1:Start the program.

Step 2:Get the number of persons in an array.

Step 3:Get the height of each persons.

Step 4:Count the average height.

Step 5:Stop the program.

Program coding:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,n,sum=0,count=0,height[100];
float avg;
clrscr();
printf("Enter the no of persons:");
scanf("%d",&n);
printf("\n Enter the height of each persons in centimeter\n");
for(i=0;i<n;i++)
{scanf("%d",&height[i]);
sum=sum+height[i];
}
avg=(float)sum/n;
for(i=0;i<n;i++)
if(height[i]>avg)
count++;
printf("\n average height of %d persons is:%.2f\n",n,avg);
```

```
printf("\n The no of persons above average:%d",count);  
getch();  
}
```

Output:

```
Enter the no of persons:5  
  
Enter the height of each persons in centimeter  
150 155 162 158 154  
  
average height of 5 persons is:155.80  
  
The no of persons above average:2_
```