1. Write a C program which can input some persons’ ages and display how many of them are teenager

Sample Input

7

12 19 24 11 17 13 65

Sample Output

Teenage: 3

#include<stdio.h>

#include<math.h>

int main(){

int x,y,a,i;

printf("Enter the number of the person:\n");

scanf("%d",&y);

printf("Enter the ages of the persons one by one:\n");

a=0;

for(i=1;i<=y;i=i+1){

scanf("%d",&x);

if(x>=13 && x<=19){

a=a+1;

}

}

printf("Total teenager: %d",a);

return 0;

}

2. Write a C program which can input some persons’ ages and display number of people in each category. There are three categories – Child (Up to 12 years), Teenager (13-19 Years) and senior citizen (65 and 65+)

Sample Input

7

12 19 24 11 17 13 65

Sample Output

Child: 2

Teenager: 3

Senior Citizen: 1

#include<stdio.h>

#include<math.h>

int main(){

int x,y,a,b,c,i;

printf("Enter the number of the person:\n");

scanf("%d",&y);

printf("Enter the ages of the persons one by one:\n");

a=0;

b=0;

c=0;

for(i=1;i<=y;i=i+1){

scanf("%d",&x);

if(x<=12){

a=a+1;

}

if(x>=13 && x<=19){

b=b+1;

}

if(x>=65){

c=c+1;

}

}

printf("Child: %d\n",a);

printf("Teenager: %d\n",b);

printf("Senior Citizen: %d\n",c);

return 0;

}

3. Write a C program which can input some country’s population and display average population of those countries.

#include<stdio.h>

#include<math.h>

int main(){

int x,y,a,i;

float avg;

printf("Enter the number of the countries:\n");

scanf("%d",&y);

printf("Enter the population of the countries one by one:\n");

a=0;

for(i=1;i<=y;i=i+1){

scanf("%d",&x);

a=a+x;

}

avg=(float)a/y;

printf("average population of those countries %.2f",avg);

return 0;

}

4. Write a C program which can input some students marks and display average marks who passed in

the exam and average marks who do not passed in the exam. [Passed mark is 60]

8

65 45 98 92 54 69 88

Average of passing students: 82.4

Average of failing students: 49.5

#include<stdio.h>

#include<math.h>

int main(){

int x,y,a,b,i,c,d;

float p,q;

printf("Enter the number of students:\n");

scanf("%d",&y);

printf("Enter the students marks one by one:\n");

a=0;

b=0;

c=0;

d=0;

for(i=1;i<=y;i=i+1){

scanf("%d",&x);

if(x<=59){

a=a+x;

c=c+1;

}

if(x>=60 ){

b=b+x;

d=d+1;

}

}

p=((float)a/c);

q=((float)b/d);

printf("Average of failing students: %.2f\n",p);

printf("Average of passing students: %.2f\n",q);

return 0;

}