**1. Write a program to print all the ASCII values and their equivalent characters**

**using a WHILE loop. The ASCII values vary from 0 to 255.**

Program:-

#include <stdio.h>

void main()

{

printf("Wrting the ASCII codes for all characters\n");

int i=0;

char ch;

while(i<256)

{

ch=i;

printf("%d ---> %c\n",i,ch);

i++;

}

}

**OUTPUT:-**

![A picture containing computer

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**2. Write a program to print the Fibonacci series till the number N using while**

**loop. The sequence of Fibonacci numbers is defined recursively**

**f0 = 0, f1 = 1, fi+1 = fi + fi-1**

**for i = 1, 2, 3, ….. So the sequence is like**

**0 1 1 2 3 5 8 13 21 ……**

**Example: N = 50, the sequence will be**

**0 1 1 2 3 5 8 13 21 34**

Program:-

#include <stdio.h>

void main()

{

int n1,n2,num,t;

printf("Enter the value of N till where the Fibonacci series is to be printed: ");

scanf("%d",&num);

n1=0;

n2=1;

printf("%d ",n1);

while(n2<=num)

{

printf("%d ",n2);

t=n2;

n2+=n1;

n1=t;

}

}

**OUTPUT:-**



**3. Write a program to read a number and printout all the divisors of the**

**number.**

Program:-

#include <stdio.h>

void main()

{

int num;

printf("Enter the number: ");

scanf("%d",&num);

int i=1;

printf("The divisors are:- \n");

while(i<=num/2)

{

if(num%i==0)

printf("%d, ",i);

i++;

}

printf("%d",num);

}

**OUTPUT:-**

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**4. Write a program to enter marks of N students in M subjects and**

**calculate average and print it. For each student asks how many**

**subjects and accordingly take marks.**

**Eg. Enter No of students :5**

**For 1st student Enter no of subjects: 3**

**Enter marks in 3 subject: 50 80 90**

**Percentage: XX.XX**

**..**

**For 5st student Enter no of subjects: 4**

**Enter marks in 4 subject: 50 80 90 70**

**Percentage: XX.XX**

Program:-

#include <stdio.h>

void main()

{

int num,sub,marks;;

float sum;

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

scanf("%d",&num);

int i,j;

for(i=1;i<=num;i++)

{

printf("Enter total number of subjects for student %d: ",i);

scanf("%d",&sub);

marks=0;

sum=0;

for(j=1;j<=sub;j++)

{

printf("Enter the marks in subject number %d: ",j);

scanf("%d",&marks);

sum+=marks;

}

printf("The percentage of student %d is %f\n",i,(sum/sub));

}

printf("\nTHANK YOU");

}

**OUTPUT:-**

![Text

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