1. Write a function which calculates the sum of times entered by the user. E.g. if user enters 12 hrs 30 minutes and 1 hrs 45 minutes the output should be 14 hrs 15 minutes.
2. Write a program which takes the input from the user as time in 24 hours format and convert it into 12 hours format e.g. Input : 13:30 🡪 Output : 1:30.
3. Write the output for the following program and give reasons:

#include<stdio.h>

void main()

{

int a[]={10,20,30,40,50,60};

int \*p[]={a,a+1,a+2,a+3,a+4,a+5};

int \*\*pp = p;

\*pp++;

printf("%d %d %d\n", pp-p, \*pp-a, \*\*pp);

\*pp++;

printf("%d %d %d\n",pp-p,\*pp-a, \*\*pp);

++\*pp;

printf("%d %d %d\n",pp-p, \*pp-a, \*\*pp);

++\*\*pp;

printf("%d %d %d",pp-p, \*pp-a, \*\*pp);

}

1. Write the output for the following program and give reason:

#include<stdio.h>

void main()

{

char arr[2][2][3]={'B','A','S','I','C',' ','C'};

char (\*p)[2][2][3]=arr;

printf("%d",(\*(\*(\*p)[1]-2))-(\*(\*(\*p)[0]+1)));

}

1. Write a program such that it displays a histogram(bar graph) for given set of numbers. The numbers should range between 0 to 10. E.g if numbers entered are 5 2 6 3 then histogram looks like:

\*

\* \*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \*

The numbers should be entered in an array and array address should be passed as a parameter to the function for creating histogram.

1. Write a program which consist of array “ArrayPointers” of 10 integer pointers each pointing to a number in another array “ArrayNum”(unsorted) of 10 integers such that when pointers of first array are accessed, display the numbers of ArrayNum in increasing sequence.

Note: Do not sort “ArrayNum”. Display the sorted array without sorting the integer array.

1. Write a program which consist of a function taking reference to two strings as arguments and display the concatenated string such that the first string is concatenated to last n characters of 2nd string where n can be taken as input from the user.

E.g. String1 = “Hello”, String2=”World”, n=3 🡪 Output: Hellorld

8. What should be Output for following program?

#include<stdio.h>

int fun(int x)

{

if(x>100)

return (x-10);

else

fun(fun(x+11));

}

void main()

{

printf("%d",fun(90));

}