

- 1 Generate a correct version for the following erroneous program.

```
#include<Stdio.H>
Int main(){
    Int a, b;
    Float div;
    Scanf(“%f%f”, &a, &b);
    Div=a/b;
    Printf(“%f”, Div);
    Return 0;
}
```

- 2 Mention the data type of each of the data given below
-1, 1.0, ‘1’, “1”, 1

- 3 Find the values of the following variables

```
int a= 17%5;
int b=17.0/5;
float c=17/5;
float d=17.0/5;
int e=3*4+12/4-3;
```

- 4 Find output when input values of b are 4, 5 , 10 and 12, respectively

```
scanf(“%d”, &b);
printf(“Begin\n”);
if (b>=5)
    printf(“UIU\n”);
else if(b<=5)
    printf(“CSE\n”);
else if ((b>=2)||(b<10))
    printf(“COMPUTER\n”);
else if ((b>2)&&(b<=10))
    printf(“NICE\n”);
else
    printf(“Bye\n”);
printf(“End”);
```

- 5 Write the following program using the if...else statement instead of switch...case

```
#include<stdio.h>
int main(){
    int choice;
    scanf(“%d”, &choice);
    switch(choice){
        case 1:
            printf(“CSE\n”);
        case 2:
            printf(“UIU\n”);
            break;
        case 3:
            printf(“BYE”);
            break;
        default:
            printf(“EXIT”);
    }
    return 0;
}
```

- 6 Show manual tracing for the following code segment

```
sum=0;
sign=1;
for(i=2; i<=6; i=i+2){
    sum=sum+sign*i;
    printf(“%d %d\n”, i, sum);
```

```

        sign=-sign;
    }
printf("%d", sum);

```

- 7 Write a program to calculate the sum of n positive floating point numbers (skip negative numbers) taken from keyboard.

For example, n=3 (taken from keyboard)

Input	Sum	Count
10	10	1
-20	10	1
30	10+30=40	2
-5	40	2
15	40+15=55	3 (Since Count = n, stop the number input)

Output: 55

- 8 Show manual tracing for the following code segment

```

for(i=2; i>=1; i--){
    for (j=1; j<=i; j++){
        printf("%d %d\n", i, j);
    }
    printf("%d %d\n", i, j);
}
printf("%d %d", i, j);

```

- 9 Write a program to perform the following operations

- i) Declare an integer array of size 100
- ii) Read n integer numbers from keyboard and store them in the array, where n is input integer from keyboard
- iii) Find the minimum value among all the numbers stored in the array.
- iv) Display the index number(s) containing the minimum.

Sample input and outputs are given below:

Input	Array A	Output Minimum	Output Index Number(s) in Array A
n=3	10 5 20	5	1
n=4	10 4 20 4	4	1 3
n=5	10 -1 4 -3 -2	-3	3

- 10 Show the manual tracing for the following code segment

```

int F[6]={0};
int i;
F[0]=1;
F[1]=1;
for(i=2; i<=5; i++){
    F[i]=F[i-1]+F[i-2];
    printf("%d %d %d\n", F[i-2], F[i-1], F[i]);
}
printf("%d %d %d", F[i-2], F[i-1], F[i-1]+F[i-2]);

```

Write a program to display the even numbers stored in the integer array A[n][n], where n is taken from keyboard. Here, all the integer numbers for array A are read from keyboard. Finally print the summation of all the numbers on monitor.