ASSIGNMENT

1. Declare a structure to store data for student information.
The structure contains roll number, name, marks for students.
Write a program to accept information of student from user and print the same.

2. Write a function to accept array of student's information from the user. Write another function to print the array student's information.

3. Write a function to sort array of student's information by roll number.

TWISTERS

1. #include<stdio.h>

```
#define print(Y,X) (Y/Y,X*Y)

int main( void )
{
        printf("%d",print(5,9));
        return 0;
}
```

A. 1
B. 81
C. 45
D. 0

Answer: C

2. #include<stdio.h>
struct emp
{
	int age;
	struct emp *ptr;
};

int main(void)
{
	struct emp var={20,NULL};
	struct emp *ptr = &var;
	ptr->ptr = ptr;
	printf("%d %d",ptr->ptr->age,(*ptr).ptr->age);
}
A.20 20
B.20 NULL
C.0 0
D. Garbage Garbage

Answer: A

3. #include <stdio.h>
#pragma pack(1)
int main(void)
{
	struct
	{
		int s[5];
			union
			{
				char a; float b;
			}u1;
	} t;
printf("%d", sizeof(t) + sizeof(t.u1));
return 0;
}

A. 24
B. 28
C. 25
D. 20

Answer: B

4. #include<stdio.h>
#include<stdlib.h>
int main(void)
{
	int *a[3];
	a = (int*) malloc(sizeof(int)*3);
	free(a);
	return 0;
}
A. unable to allocate memory
B. compile time error as incompatible types
C. unable to free memory
D. no error

Answer : B