Pointers float div(float, int); int main (void) int i,b; float a; float(*fp[])(float,int)={add,sub,mul,div}; char *operation[]={"Add", "Subtract", "Multiply", "Divide"}; printf("Enter a float and a integer : "); scanf("%f%d",&a,&b); for(i=0;i<4;i++) printf("%s: %f\n", operation[i], (*fp[i]) (a,b)); return 0; float add(float a, int b) return a+b; float sub(float a, int b) return a-b; float mul(float a, int b) return a*b; float div(float a, int b) return a/b; Function pointers are generally used in compilers, interpreters and database programs. Here is a review of the pointer declarations used in this chapter-/*Pointer to int*/ int **p; /*Pointer to pointer to int*/ int *p[20]; /*Array of 20 int pointers*/ int (*p)[20]; /*Pointer to an array of 20 integers*/ int *f(void); /*Function that returns an int pointer*/ /*Pointer to a function, function returns int*/ int (*fp) (void); int (*fp[4])(void); /*An array of 4 pointers to functions, each function returns int*/
int *(*fp)(void); /*Pointer to a function, function returns an int pointer*/ /*Pointer to a function, function takes two arguments of int float *(*fp)(int,float); and float type and returns a float pointer*/ float *(*fp[4])(int,float); /*An array of 4 pointers to functions, each function takes two arguments of int and float type and returns a float pointer*/ Exercise Find the output of the following programs. Assume stdio.h is included in all programs.