***Muntaka Mayesha***

***I'd no: 233014222***

***Semester no:2***

***Section no:1***

***Question: Write a C  program to calculate the power of a number. There must be a function which will take two numbers as input (base and exponent) from the user, call the power function, and print the result.***

***Solution :***

***#include <stdio.h>***

***int power(int base, int exponent) {***

***int result = 1;***

***for (int i = 0; i < exponent; i++) {***

***result \*= base;***

***}***

***return result;***

***}***

***int main() {***

***int base, exponent;***

***printf("Enter the base: ");***

***scanf("%d", &base);***

***printf("Enter the exponent: ");***

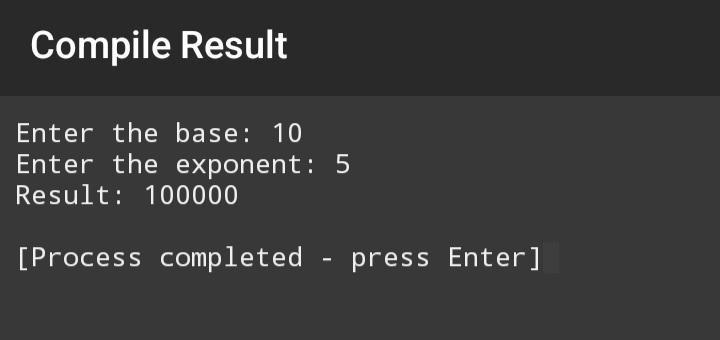
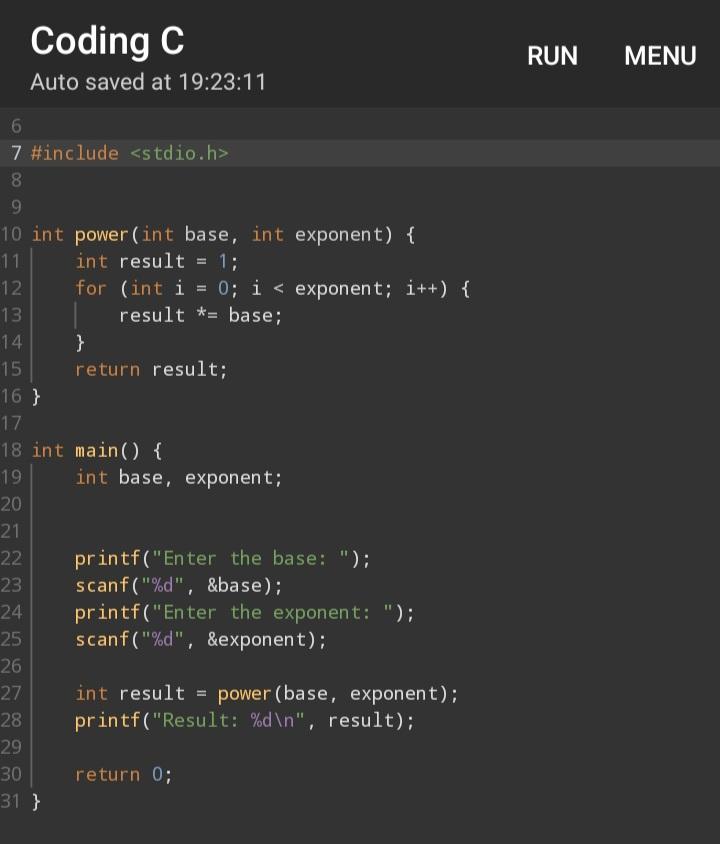
***scanf("%d", &exponent);***

***int result = power(base, exponent);***

***printf("Result: %d\n", result);***

***return 0;***

***}***

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