#Question no. 1

#include <stdio.h>

int main(void) {

int a,b;

printf("Enter the value of a : ");

scanf("%d", &a);

printf("\nEnter the value of b : ");

scanf("%d", &b);

a += b -= a = b - a;

printf("\nAfter Swapping the value of a = %d\n b = %d", a, b);

return 0;

}

#Question no. 2

#include<stdio.h>

int main(void) {

int reverse = 0, num;

printf("enter any number to get its reverse:\n");

scanf("%d", &num);

while (num != 0) {

reverse = reverse \* 10 + num % 10;

num = num / 10;

}

printf("the reverse = %d\n", reverse);

return 0;

}

#Question no. 3

#include<stdio.h>

int main(void) {

int a, b, c;

printf("enter value for a, b& c :\n");

scanf("%d%d%d", &a, &b, &c);

if (a > b && a > c) {

printf("a is greatest");

}

if (b > a && b > c) {

printf("b is greatest");

}

if (c > a && c > b) {

printf("c is greatest");

}

return 0;

}

#Question no. 4

#include <stdio.h>

int main(void) {

int year;

printf("Enter the year: ");

scanf("%d", &year);

if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {

printf("%d is a leap year.\n", year);

} else {

printf("%d is not a leap year.\n", year);

}

return 0;

}

#Question no. 5

#include<stdio.h>

int main(void) {

int num;

printf("enter a number: \n");

scanf("%d", &num);

if (num % 2 == 0) {

printf("%d is a even number\n", num);

}

else {

printf("%d is a odd number\n", num);

}

return 0;

}

#Question no. 6

#include<stdio.h>

int main(void) {

int num;

printf("Read the integer from keyboard: ");

scanf("%d", &num);

for (int i = 0; i < 3; i++) {

num = num << 1;

}

printf("The left shifted data is = %d", num);

return 0;

}

#Question no. 7

#include<stdio.h>

int main(void) {

char day;

printf("enter m for Monday\n t for Tuesday\n w for Wednesday\n h for Thursday\n f for Friday\n s for Saturday\n u for sunday:");

scanf("%c", &day);

switch (day) {

case 'm':

printf("Monday");

break;

case 't':

printf("Tuesday");

break;

case 'w':

printf("Wednesday");

break;

case 'h':

printf("Thursday");

break;

case 'f':

printf("Friday");

break;

case 's':

printf("Saturday");

break;

case 'u':

printf("Sunday");

break;

default:

printf("Nothing");

}

return 0;

}

#Question no. 8

#include<stdio.h>

int main(void) {

int num1, num2, input;

printf("enter two numbers: ");

scanf("%d%d", &num1, &num2);

printf("enter 1 For sum\n 2 For multiply\n 3 For subtraction\n 4 For division: ");

scanf("%d", &input);

switch (input) {

case 1:

printf(" sum =%d", num1 + num2);

break;

case 2:

printf("multiple = %d", num1 \* num2);

break;

case 3:

printf("substraction = %d", num1 - num2);

break;

case 4:

printf("division =%d", num1 / num2);

break;

default:

printf("Nothing");

}

return 0;

}

#Question no. 9

int main(void) {

int n, sum =0, i = 1;

printf("enter a number : ");

scanf("%d", &n);

while (i <=n){

sum += i;

i++;

}

printf("sum = %d", sum);

return 0;

}

#Question no. 10

#include <stdio.h>

int main(void) {

int i, j, num;

printf("enter the number of rows: ");

scanf("%d", &num);

for (i = 1; i <= num; i++) {

for (j = 1; j <= num - i; j++) {

printf(" ");

}

for (j = 1; j <= 2 \* i - 1; j++) {

printf("\*");

}

printf("\n");

}

for (i = num - 1; i >= 1; i--) {

for (j = 1; j <= num - i; j++) {

printf(" ");

}

for (j = 1; j <= 2 \* i - 1; j++) {

printf("\*");

}

printf("\n");

}

return 0;

}