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1.

#include <stdio.h>

#include <stdlib.h>

int main(){

 int indx = 100;

 while (indx >= 1){

 printf("%d\n", indx);

 indx =indx - 1;

 }

 return 0;

}

3.

#include

 <stdio.h>

int main() {

 int n, i, flag = 0;

 printf("Enter a positive integer: ");

 scanf("%d", &n);

 for (i = 2; i <= n / 2; ++i) {

 // condition for non-prime

 if (n % i == 0) {

 flag = 1;

 break;

 }

 }

 if (n == 1) {

 printf("1 is neither prime nor composite.");

 }

 else {

 if (flag == 0)

 printf("%d is a prime number.", n);

 else

 printf("%d is not a prime number.", n);

 }

 return 0;

}

4.

 #include

<stdio.h>

int main()

{

 int c, n, f = 1;

 printf("Enter a number to calculate its factorial\n");

 scanf("%d", &n);

 for (c = 1; c <= n; c++)

 f = f \* c;

 printf("Factorial of %d = %d\n", n, f);

 return 0;

}

5.

#include <stdio.h>

#include <stdlib.h>

int main()

{ int indx = 50;

 while (indx <= 1000){

 printf("%d\n", indx);

 indx =indx + 7;

 }

 return 0;

}

6.

/\*\*

 \* C program to check whether a character is vowel or consonant

 \*/

#include <stdio.h>

int main()

{

 char ch;

 /\* Input character from user \*/

 printf("Enter any character: ");

 scanf("%c", &ch);

 /\* Condition for vowel \*/

 if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||

 ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')

 {

 printf("'%c' is Vowel.", ch);

 }

 else if((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))

 {

 /\* Condition for consonant \*/

 printf("'%c' is Consonant.", ch);

 }

 else

 {

 /\*

 \* If it is neither vowel nor consonant

 \* then it is not an alphabet.

 \*/

 printf("'%c' is not an alphabet.", ch);

 }

 return 0;

}

9.

#include <stdio.h>

int main()

 {

 int a,b,c,d,e,f,g,h,result;

i

 printf("\nInput the first integer: ");

 scanf("%d", &a);

if a=0

{exit(0);

}else

 printf("\nInput the second integer: ");

 scanf("%d", &b);

printf("\nInput the first integer: ");

 scanf("%d", &c);

printf("\nInput the first integer: ");

 scanf("%d", &d);

printf("\nInput the first integer: ");

 scanf("%d", &e);

printf("\nInput the first integer: ");

 scanf("%d", &f);

printf("\nInput the first integer: ");

 scanf("%d", &g);

printf("\nInput the first integer: ");

 scanf("%d", &h);

 result =a\*b\*c\*d\*e\*f\*g\*h\*;

 printf("Product of the above two integers = %d\n", result);

}

10.

#include<stdio.h>

 int main()

{

int count=1,year\_num;

float Rate;

unsigned long CurrentYr;

unsigned long NextYr;

while (count<=1)

{

 printf("Enter the initial egret population: ");

 scanf("%d",&CurrentYr);

 printf("Enter the rate: ");

 scanf("%f",&Rate);

 printf("Year Population\n");

 printf("---- ----------\n");

 if ((CurrentYr>0 && CurrentYr<1000000) && (Rate>0 && Rate<4))

 {

 NextYr = CurrentYr;

 for(year\_num=0;year\_num<=25;year\_num++)

 {

 NextYr = Rate \* NextYr \* (1-NextYr/1000000);

 printf("%4d%12d\n",year\_num,NextYr);

 }

 break;

 }

 else if ((CurrentYr < 0 || CurrentYr > 1000000) || (Rate<0 || Rate>4))

 {

 printf("Invalid Input!");

 printf("Enter the initial egret population: ");

 scanf("%d",&CurrentYr);

 printf("Enter the rate: ");

 scanf("%f",&Rate);

 if ((CurrentYr>0 && CurrentYr<1000000) && (Rate>0 && Rate<4))

 {

 NextYr = CurrentYr;

 for(year\_num=0;year\_num<=25;year\_num++)

 {

 printf("%4d%12d\n",year\_num,NextYr);

 NextYr = Rate \* NextYr \* (1-NextYr/1000000);

 }

 break;

 }

 else

 {

 printf("No more chance ! Bye ! ");

 }

}

return 0;

}

}