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| **Write a program for Even and Odd Number**  #include <stdio.h>  int main() {  int num;  printf("Enter an integer: ");  scanf("%d", &num);  if(num % 2 == 0)  printf("%d is even.", num);  else  printf("%d is odd.", num);    return 0;  } | **Write c prog. For factorial using function**  #include <stdio.h>  int fact(int);  void main()  {  int no,factorial;  printf("Enter a number: \n");  scanf("%d",&no);  factorial=fact(no);  printf("The Factorial of %d is %d\n",no,factorial);  }  int fact(int n)  {  int i,f=1;  for(i=1;i<=n;i++)  {  f=f\*i;  }  return f;  } |
| **1. simple interest Algorithm**  Step 1:Start  Step 2:Read Principal Amount, Rate and Time  Step 3:Calculate Interest using formula SI= ((amount\*rate\*time)/100)  Step 4:Print Simple Interest  Step 5:Stop  **2. Compound interest Algorithm**  Step 1: Start  Step 2: Read 3 number for p, n, r  Step 3: Calculate C.I = p × (1 + r/100)n – p  Step 4: Print “The compound Interest = C.l”  Step 5: stop | **Syntax of switch Statement in C**  **switch(expression)**  **{**  **case** value1**:** statement\_1;  **break;**  **case** value2**:** statement\_2;  **break;**  .  .  **case** value\_n**:** statement\_n;  **break;**  **default:** default\_statement;  }  **Syntax for for loop**  for (*expression 1*;*expression 2*;*expression 3*)  {   *// code block to be executed* }  **Syntax for while loop**  while (condition)  { *// code block to be executed* } |