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| Q10 | Program to calculate the factorial of a number |
|  | #include "iostream"  using namespace std;  int fact(int);  main()  {  int x,n;  cout<<"Enter a number :";  cin>>n;  x=fact(n);  cout<<x;  }  int fact(int n)  {  int f=1;  while(n>0)  {  f=f\*n;  n--;  }  return f;  } |
| Q11 | Program to calculate the sum digits of a number |
|  | #include "iostream"  using namespace std;  int sum\_digit(int);  main()  {  int x,n;  cout<<"Enter a number :";  cin>>n;  x=sum\_digit(n);  cout<<x;  }  int sum\_digit(int n)  {  int s=0;  while(n>0)  {  s=s + n%10;  n=n/10;  }  return s;  } |
| Q12 | Program to Reverse a number |
|  | #include "iostream"  using namespace std;  int reverse(int);  main()  {  int x,n;  cout<<"Enter a number :";  cin>>n;  x=reverse(n);  cout<<x;  }  int reverse(int n)  {  int s=0;  while(n>0)  {  s=s \*10 + n%10;  n=n/10;  }  return s;  } |
| Q13 | Program to check given number is Armstrong or not |
|  | #include "iostream"  using namespace std;  int armstrong(int);  main()  {  int n,x;  cout<<"Enter a number:";  cin>>n;  x=armstrong(n);  if(x==n)  cout<<"Arm strong";  else  cout<<"Not arm strong";  }  int armstrong(int num)  {  int sum=0,r;  while(num!=0)  {  r=num%10;  num=num/10;  sum=sum+(r\*r\*r);  }  return sum;  } |
| Q14 | Program to check given number is palindrome or not |
|  | #include "iostream"  using namespace std;  int palindrome(int);  main()  {  int n,x;  cout<<"Enter a number:";  cin>>n;  x=palindrome(n);  if(x==n)  cout<<"Palindrome ";  else  cout<<"Not palindrome ";  }  int palindrome(int num)  {  int r=0;  while(num>0)  {  r=r\* 10 + num%10;  num=num/10;  }  return r;  } |
| Q15 | Program to count number of bits are set to 1 in an integer. |
|  | #include "iostream"  using namespace std;  int bit\_count(int);  main()  {  int x,n;  cout<<"Enter a number :";  cin>>n;  x=bit\_count(n);  cout<<x;  }  int bit\_count(int n)  {  int c=0;  while(n>0)  {  c++;  n=n&n-1;  }  return c;  } |