1. Write a recursive function to print first N natural numbers

Ans #include<stdio.h>

void natural(int n)

{

if (n>0)

{

natural(n-1);

printf(" %d",n);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

natural(n);

return 0;

}

2. Write a recursive function to print first N natural numbers in reverse order

Ans #include<stdio.h>

void natural(int n)

{

if (n>0)

{

printf(" %d",n);

natural(n-1);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

natural(n);

return 0;

}

3. Write a recursive function to print first N odd natural numbers

Ans #include<stdio.h>

void odd(int);

void odd(int n)

{

if (n>0)

{

odd(n-1);

printf("%d ",2\*n-1);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

odd(n);

return 0;

}

4. Write a recursive function to print first N odd natural numbers in reverse order

Ans #include<stdio.h>

void odd(int);

void odd(int n)

{

if (n>0)

{

printf("%d ",2\*n-1);

odd(n-1);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

odd(n);

return 0;

}

5. Write a recursive function to print first N even natural numbers

Ans #include<stdio.h>

void even(int);

void even(int n)

{

if (n>0)

{

even(n-1);

printf("%d ",2\*n);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

even(n);

return 0;

}

6. Write a recursive function to print first N even natural numbers in reverse order

Ans #include<stdio.h>

void even(int);

void even(int n)

{

if (n>0)

{

printf("%d ",2\*n);

even(n-1);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

even(n);

return 0;

}

7. Write a recursive function to print squares of first N natural numbers

Ans #include<stdio.h>

void sqnatural(int n)

{

if (n>0)

{

sqnatural(n-1);

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

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

sqnatural(n);

return 0;

}

8. Write a recursive function to print binary of a given decimal number

Ans #include<stdio.h>

void dtob(int n)

{

if (n>0)

{

dtob(n/2);

printf(" %d",n%2);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

dtob(n);

return 0;

}

9. Write a recursive function to print octal of a given decimal number

Ans #include<stdio.h>

void d2octal(int n)

{

if (n>0)

{

d2octal(n/8);

printf("%d",n%8);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

d2octal(n);

return 0;

}

10. Write a recursive function to print reverse of a given number

Ans #include<stdio.h>

void reverse(int n)

{

if (n>0)

{

printf("%d",n%10);

reverse(n/10);

}

}

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

reverse(n);

return 0;

}