Assignment (12)

Q-1

Ans-

#include<stdio.h>

Void printNatural(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

printNatural(m);

}

Void printNatural(int num)

{

If(num>0)

{

printNatural(num-1);

printf(“%d “,num);

}

}

Q-2

Ans

#include<stdio.h>

Void printNatural(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

printNatural(m);

}

Void printNatural(int num)

{

If(num>=1)

{

Printf(“%d “,num);

printNatural(num-1);

}

}

Q-3

Ans-

#include<stdio.h>

Void print\_odd\_Natural(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_odd\_Natural(m);

}

Void print\_odd\_Natural(int num)

{

If(num>=1)

{

Print\_odd\_Natural(num-1);

Printf(“%d “,2\*num-1);

}

}

Q-4

Ans-

#include<stdio.h>

Void print\_odd\_Natural\_rev(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_odd\_Natural\_rev(m);

}

Void print\_odd\_Natural\_rev(int num)

{

If(num>=1)

{

Printf(“%d “,2\*num-1);

Print\_odd\_Natural\_rev(num-1);

}

}

Q-5

Ans-

#include<stdio.h>

Void print\_even\_Natural(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_even\_Natural(m);

}

Void print\_even\_Natural(int num)

{

If(num>=1)

{

Print\_even\_Natural(num-1);

Printf(“%d “,2\*num);

}

}

Q-6

Ans-

#include<stdio.h>

Void print\_even\_Natural\_rev(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_even\_Natural\_rev(m);

}

Void print\_even\_Natural\_rev(int num)

{

If(num>=1)

{

Printf(“%d “,2\*num);

Print\_even\_Natural\_rev(num-1);

}

}

Q-7

Ans

#include<stdio.h>

Void print\_square(int num);

IsInt main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_square(m);

}

Void print\_square(int num)

{

If(num>=1)

{

Print\_square(num-1);

Printf(“%d “,num\*num);

}

}

Q-8

Ans-

#include<stdio.h>

Void binary (int n);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Binary(m);

Return 0;

}

Void binary (int n)

{

If(n==0)

Return;

Binary(n>>1);

Printf(“%d”,n&1);

}

Q-8.1

Ans-

#include<stdio.h>

void binary (int n);

int main()

{

int m;

printf("Enter a number\n");

scanf("%d",&m);

binary(m);

return 0;

}

void binary (int n)

{

if(n==0)

return;

binary(n>>1);

printf("%d",n&1);

}

Q-8.2

Ans

#include<stdio.h>

Void print\_square\_rev(int num);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Print\_square\_rev(m);

}

Void print\_square\_rev(int num)

{

If(num>=1)

{

Printf(“%d “,num\*num);

Print\_square\_rev(num-1);

}

}

Q-9

Ans-

#include<stdio.h>

Void octal(int n);

Int main()

{

Int m;

Printf(“Enter a number\n”);

Scanf(“%d”,&m);

Octal(m);

Return 0;

}

Void octal(int n)

{

If(n==0)

Return;

Octal(n/8);

Printf(“%d”,n%8);

}

Q-10

Ans-

#include<stdio.h>

Void reverse (int m);

Int main()

{

Int n;

Printf(“Enter a number\n”);

Scanf(“%d”,&n);

Reverse(n);

Return 0;

}

Int sum=0,rem;

Void reverse (int m)

{

If(m>0)

{

Rem=m%10;

Sum= sum\*10+rem;

Reverse(m/10);

Return;

}

Printf(“%d “,sum);

}