**Assignment -6**

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1. Write a program to calculate sum of first N natural numbers.

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#include<stdio.h>

int main()

{

int a=0,num,i;

printf("Enter the Number");

scanf("%d",&num);

for(i=0;i<num;i++)

a=a+i;

printf("Sum of Natural Number is %d",a);

getch();

return 0;

}

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2. Write a program to calculate sum of first N even natural numbers

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#include<stdio.h>

int main()

{

int a=0,num,i;

printf("Enter the Number");

scanf("%d",&num);

for(i=0;i<num;i++)

a=a+i;

printf("Sum of Natural Number is %d",a);

getch();

return 0;

}

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3. Write a program to calculate sum of first N odd natural numbers.

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#include<stdio.h>

int main()

{

int num,sum=0,i=1;

printf("Enter a Natural Number");

scanf("%d",&num);

while(i<=num)

{

sum=sum+2\*i-1;

i=i+1;

}

printf("Sum of First %d Even Natural Number is %d ",num,sum);

getch();

return 0;

}

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4. Write a program to calculate sum of squares of first N natural numbers .

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#include<stdio.h>

int main()

{

int num,sum=0,i;

printf("Enter a Natural Number");

scanf("%d",&num);

for(i=1;i<=num;i++)

{

sum=sum+(i\*i);

}

printf("Sum of Squre of %d Natural Number is %d ",num,sum);

getch();

return 0;

}

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5. Write a program to calculate sum of cubes of first N natural numbers.

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//Write a program to calculate sum of cubes of first N natural numbers

#include<stdio.h>

int main()

{

int num,sum=0,i;

printf("Enter a Natural Number");

scanf("%d",&num);

for(i=1;i<=num;i++)

{

sum=sum+(i\*i\*i);

}

printf("Sum of Cube of %d Natural Number is %d ",num,sum);

getch();

return 0;

}

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6. Write a program to calculate factorial of a number.

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#include<stdio.h>

int main()

{

int fact=1,num,i;

printf("Enter the Number");

scanf("%d",&num);

for(i=2;i<=num;i++)

{

fact=fact\*i;

}

printf("factorial of %d is %d",num,fact);

getch();

return 0;

}

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7. Write a program to count digits in a given number.

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#include<stdio.h>

int main()

{

int count=0,n;

printf("Enter the Number");

scanf("%d",&n);

while(n!=0)

{

n=n/10;

count++;

}

printf("Number of Digit is is %d",count);

getch();

return 0;

}

…………………………………………………………………………………………………………….. 8. Write a program to check whether a given number is a Prime number or not .

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#include<stdio.h>

int main()

{

int i,n,flag=0;

printf("Enter the Number");

scanf("%d",&n);

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

{

if(n%i==0)

{

flag=1;

break;

}

}

if(flag==1)

printf("Number is not Prime");

else

print("Number is Prime");

getch();

return 0; }

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9. Write a program to calculate LCM of two numbers. 10. Write a program to reverse a given number.

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#include<stdio.h>

int main()

{

int a,b,i;

printf("Enter the two Number");

scanf("%d %d",&a,&b);

for(i=1;i<=a\*b;i++)

{

if((i%a==0)&&(i%b==0))

{

break;

}

}

printf("LCM IS %d",i);

getch();

return 0;

}

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10. Write a program to reverse a given number.

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#include<stdio.h>

int main()

{

int a,i,rem,rev=0;

printf("Enter the two Number");

scanf("%d",&a);

while(a!=0)

{

rem=a%10;

a = a/10;

rev = rev\*10 + rem;

}

printf("Reverse of given Number is %d",rev);

getch();

return 0; }