```
Q1 : Write a C program to print all natural numbers from
1 to n. - using while Loop
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
{
int n,i; //declaration of variable
printf("enter the value of n: \n"); //dislay instruction to user
scanf("%d",&n);
i=1;
//iteration of operation using loop
while(i<=n)
printf("%d\n",i); //print natural number
i++; //increment of i
getch();
Q2 : Write a C program to print all natural numbers in
reverse (from n to 1). -Using while loop
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main()
int n,i; //declaration of variable
printf("enter the value of n: \n"); //dislay instruction to user
scanf("%d",&n);
i=1;
//iteration of operation using loop
while(n>=1)
printf("%d\n",n);
n--; //decrement of i
getch();
```

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Q3 : Write a C program to print all alphabets from a to z.
- using while loop
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*************************************
#include <stdio.h>
#include<conio.h>
void main()
int i; //declaration of variable
i=97; //assign value
//iteration of operation using loop
while(i <= 122)
printf("%c\n",i);
i++; //decrement of i
getch();
4. Write a C program to print all even numbers between
1 to 100. - usingWhile loop
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
int i; //declaration of variable
i=1; //assign value
//iteration of operation using loop
while(i <= 100)
if(i%2==0) // cheak the number divisible by 2
printf("%d\n",i); // print even number
i++;
} // end of loop
getch();
Q 5. Write a C program to print all odd number between 1
to 100.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
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*************************************
#include <stdio.h>
#include<conio.h>
void main()
int i;
i=1;
//perform iterration by using loop
while(i <= 100)
if(i%2!=0) // cheak condition
printf("%d\n",i); // printf odd number
i++;
} //end of loop
getch();
Q6. Write a C program to find sum of all natural numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
void main()
int i,sum=0,n; // decalration of variable
printf("enter value of n \n");
scanf("%d",&n);
// itertaion by using loop
for(i=1;i<=n;i++)
sum=sum+i; // add total number by using sum
} //end of loop
printf(" total sum is: %d",sum); // print the total sum
getch();
Q7. Write a C program to find sum of all even numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main()
int i,sum=0,n; // decalration of variable
```

```
printf("enter value of n \n");
scanf("%d",&n);
// itertaion by using loop
for(i=1;i<=n;i++)</pre>
if(i\%2==0)
sum=sum+i;
// add total number by using sum
} //end of loop
printf(" total sum is: %d",sum); // print the total sum
getch();
Q8. Write a C program to find sum of all odd numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main()
{
int i,sum=0,n; // decalration of variable
printf("enter value of n \n");
scanf("%d",&n);
// itertaion by using loop
for(i=1;i<=n;i++)
if(i%2!=0)
sum=sum+i;
// add total number by using sum
} //end of loop
printf(" total sum is: %d",sum); // print the total sum
getch();
Q 9. Write a C program to print multiplication table of any
number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
```

```
void main()
{
int i, n,d; // decleration of variable
printf("enter any number ");
scanf("%d",&n);
i=1;
//itertaion of the operation
while(i<=10)
d=n*i; //multiplication of the digit
printf("%d=%d\n",i,d); // print multiplication
i++;
}// end of loop
getch();
Q10. Write a C program to count number of digits in a
number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
void main()
int i , n; // decleration of variable
printf("Enter any random number");
scanf("%d",&n);
//iteration by using loop
for(i=0;n>0;i++)
{
n=n/10;
} // end of loop
printf("%d",i); // print total number
getch();
}
Q11. Write a C program to find first and last digit of a
number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
```

```
void main()
{
int n,ld,fd; //declaration of the variable
printf("enter the any number");
scanf("%d",&n);
ld=n%10;
// to perform iteration by using loop
while(n>10)
{
n=n/10;
}// end of loop
printf(" firstdigit=%d\n lastdigit=%d",n,ld);//printf last and first digit
getch();
}
Q 12. Write a C program to find sum of first and last digit
of a number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
**************************************
#include <stdio.h>
#include<conio.h>
void main()
{
int n,fd,ld,sum=0;//declaration of the variable
printf("enter the any number");
scanf("%d",&n);
ld=n%10;
// to perform the iteration
while(n>10)
{
n=n/10;
}//end of loop
fd=n;
sum=ld+fd;// add last and first digit
printf("total sum of lastdigit and firstdigit=%d",sum);// print sum
getch();
Q13. Write a C program to swap first and last digits of a
number
OWNER: AKSHAY GANGARAM KADAM
```

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***********************************
#include <stdio.h>
#include<conio.h>
void main()
int n,fd,ld,temp=0; // declaretion of the variable
printf("enter the any number");
scanf("%d",&n);
ld=n%10;
//to perfrom iteration by using loop
while(n>10)
{
n=n/10;
} //end of loop
fd=n;
//swap two number
temp=ld;
ld=fd;
fd=temp;
printf(" lastdigit and firstdigit swap= %d\n %d\n",ld,fd);// print swap
digit
getch();
Q14. Write a C program to calculate sum of digits of a
number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*************************************
#include <stdio.h>
#include<conio.h>
void main()
{ int n,r, sum=0; // declaration of variable
printf("Enter your number");
scanf("%d",&n);
//to perform the interation
while(n!=0)
{
r=n%10;
sum=sum+r;// sum of the digit
n=n/10;
} // end of loop
printf("%d",sum);// total sum
getch();
}
```

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Q15. Write a C program to calculate product of digits of a
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BATCH: PPA9
**************************************
#include <stdio.h>
#include<conio.h>
void main()
{ int n,r, m=1; // declaration of variable
printf("Enter your number");
scanf("%d",&n);
//to perform the interation
while(n!=0)
{
r=n%10;
m=m*r;// product of the digit
n=n/10;
} // end of loop
printf("%d",m);// total product
getch();
}
Q16. Write a C program to enter a number and print its
reverse.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
void main()
{ int n,r, re=0; // declaration of variable
printf("Enter your number");
scanf("%d",&n);// read user number
//to perform the interation
while(n!=0)
r=n%10;
re=re*10+r;
n=n/10;
} // end of loop
printf("%d",re);// to print reverse number
getch();
}
/***********************************
Q17. Write a C program to check whether a number is
palindrome or not.
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OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
{
int n,re=0,r,temp; // declaration of variable
printf("enter any number \n");
scanf("%d",&n);// read user data
temp=n;
// iteration by using loop
while(n!=0)
{
r=n%10;
re=re*10+r;
n=n/10;
} // end of loop
// chek number is palindrome
if(temp==re)
printf("given number is palindrome");
}
else
printf("given number is not palindrome");
getch();
Q19. Write a C program to enter a number and print it in
words.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
{ int ch,r,re=0,n,temp; // decleration of variable
printf("enter your number ");
scanf("%d",&n);// read user number
while(n!=0)
{
r=n%10;
re=re*10+r;
n=n/10;
} // end of loop
temp=re;
// to perform iterration
```

```
while(temp!=0)
{
switch(temp%10)// use switch to cheak number
case 0: printf("zero ");
break;
case 1: printf("one ");
break;
case 2: printf("two ");
break;
case 3: printf("three ");
break;
case 4: printf("four ");// print digit words
break;
case 5: printf("five ");
break;
case 6: printf("six ");
break;
case 7: printf("seven ");
break;
case 8: printf("eight ");
break;
case 9: printf("nine ");
break;
}
temp=temp/10;
}// end of loop
getch();
}
Q20. Write a C program to print all ASCII character with
their values.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
int ch; // decaleration of the variable
ch=0;
// to itereation by using loop
while(ch<=255)
printf("%d= %c\n",ch,ch); // printf ASCII character with their values.
ch++;
} // end of loop
getch();
```

```
}
Q21: Write a C program to find power of a number using
for loop.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*************************************
#include<stdio.h>
#include<conio.h>
void main()
{ int n,power=1,e,i; // decleration of the variable
printf("enter any number or base");
scanf("%d",&n); // read value
printf("enter exponent digit");
scanf("%d",&e); // read value
// to itertation of the opreation
for(i=1;i<=e;i++)
{
power= power*n;
}// ne dof loop
printf("power is = %d",power);// print power of the vcalue
Q22 Write a C program to find all factors of a number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*************************************
#include<stdio.h>
#include<conio.h>
void main()
{
int i, n; // decleration of variable
printf("ENTER YOUR NUMBER ");
scanf("%d",&n);// read user data
// to perform itertation by using loop
for(i=1;i<=n;i++)
if(n\%i==0)
printf("%d ", i ); // printf factors
getch();
```

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Q23. Write a C program to calculate factorial of a number
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include<stdio.h>
#include<conio.h>
void main()
int n,fact=1,i; // decleration of the variable
printf("enter any number");
scanf("%d",&n);// read user number
// to perform iteration by using loop
for(i=1;i<=n;i++)
fact=fact*i;// to store factor multiplecation
}// end of loop
printf("the factorial of %d is = %d",n,fact); // print factorial of the
given number
getch();
Q 24. Write a C program to find HCF (GCD) of two
numbers
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include<stdio.h>
#include<conio.h>
void main()
{
int n1,n2,min=0,gcd=0,i; // decleration of variable
printf("enter 1st number");
scanf("%d",&n1); // user data read
printf("enter 2nd number");
 scanf("%d",&n2); // user data read
 if(n1<n2) // to cheak number is min in both
min=n1;
 }
 else
min=n2;
 // to itertaion by using for loop
 for(i=1;i<=min;i++)</pre>
 if(n1%i==0 && n2%i==0)// to cheak number divsisble by same
number
 {
gcd=i;
```

```
} // end of loop
printf("the %d and %d gcd is = %d",n1,n2,gcd); // print gcd of n1
and n2
getch();
Q25. Write a C program to find LCM of two numbers.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main() {
int n1, n2, max,lcm;// decleration of the variable
printf("Enter two positive integers: ");
scanf("%d %d", &n1, &n2);// read user data
if(n1<n2)// to cheak max value in n1 and n2
max=n2;
}
else
max=n1;
// using loop infinite time
while(1){
if(max%n1==0 && max%n2==0)// to cheak number divisible
{
lcm=max;
printf( " the lcm of %d and %d is = %d",n1,n2,lcm);
break; // break loop by if true
max++; // increment max value
} // end of loop
getch();
Q26. Write a C program to check whether a number is
Prime number or not.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
*************************************
#include <stdio.h>
#include<conio.h>
void main() {
int n,i,p=0;
printf("enter any number to cheak prime or not");
scanf("%d",&n); // read user data
// to itertaion by sing loop
```

```
for(i=2;i<n;i++)</pre>
if(n\%i==0)
{
p++;
break; // break loop
} // end loop
if(p==0)// to cheak p incremnt or not
printf("number %d is prime",n); // print prime
}
else
printf("number %d is NOT prime",n); // print not prime
getch();
Q27. Write a C program to print all Prime numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main() {
int n,i,p=0,no1;
printf("enter 1 to upto n number");
scanf("%d",&n); // read user data
for(no1=1;no1<=n;no1++)
{
p=0;
// to itertaion by sing loop
for(i=2;i<no1;i++)
if(no1%i==0)
p++;
break; // break loop
} // end loop
if(p==0)// to cheak p incremnt or not
printf("%d\n",no1); // print prime
getch();
```

```
/***********************************
28. Write a C program to find sum of all prime numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include <stdio.h>
#include<conio.h>
void main() {
int n,i,p=0,no1,sum=0;
printf("enter 1 to upto n number");
scanf("%d",&n); // read user data
for(no1=1;no1<=n;no1++)
{
p=0;
// to itertaion by sing loop
for(i=2;i<no1;i++)
{
if(no1%i==0)
p++;
break; // break loop
 } // end loop
if(p==0 \&\& no1!=1)// to cheak p incremnt or not
sum=sum+no1; // print prime
printf("the total sumi is = %d", sum);
getch();
Q29. Write a C program to find all prime factors of a
number.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
int n,i,p=0,k; // decleration of variable
printf("enter any n number");
scanf("%d",&n); // read user data
// to iteration by sing loop
for(i=2;i<=n;i++)
```

```
if(n%i==0) // cheak factor
{
p=0;
// 2nd loop to cheak prime or not
for(k=2;k<i;k++)</pre>
if(i\%k==0)
p++;
break;
 } // end of 2nd loop
if(p==0)
printf("%d\n",i);
} // end of 1st loop
getch();
Q30. Write a C program to check whether a number is
Armstrong number or Not.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include <stdio.h>
#include<conio.h>
void main()
int n ,r,tem,ar=0; // declaration of variable
printf("enter any number ");
scanf("%d",&n); // read user data
tem=n; // copy original value in another variable
// to perform iteration
while(n!=0)
{
r=n%10;
ar=ar+r*r*r;
n=n/10;
} // end of loop
if(tem==ar)// cheak number is equal to original
printf("number is Armstrong");
else
printf(" number is NOT Armstrong");// print number is NOT Armstrong
getch();
```

```
/***********************************
Q 32. Write a C program to check whether a number is
Perfect number or Not
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
************************************
#include<stdio.h>
#include<conio.h>
void main()
int i,n,sum=0,temp; // decleration of variable
printf("enter your number");
scanf("%d",&n); // read user data
temp=n; // copy original number in another variable
for(i=1;i<n;i++)
if(n\%i==0)
sum=sum+i;
} // end of loop
if(temp==sum)
printf("number is perfect");// number is perfect
else
printf("number is not perfect");// print the number is not perfect
getch();
/***********************************
Q33. Write a C program to print all Perfect numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include<stdio.h>
#include<conio.h>
void main()
{
int i,n,sum=0,temp,end; // decleration of variable
printf("enter your number");
scanf("%d",&end); // read user data
for(n=1;n<=end;n++)
{
sum=0;
temp=n; // copy original number in another variable
```

```
for(i=1;i<n;i++)</pre>
{
if(n\%i==0)
sum=sum+i;
} // end 2nd of loop
if(temp==sum)
printf("%d\n",temp);// number is perfect
}
}// end of 1st loop
getch();
Q34. Write a C program to check whether a number is
Strong number or not
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
***********************************
#include<stdio.h>
#include<conio.h>
int fact(int);
int main()
{
int n,temp,sum=0,r; // decaleration of variable
printf("enter your number");
scanf("%d",&n); // read data
temp=n; // copy original number to another variable
while(temp!=0)
{
r=temp%10;
int f= fact(r);
temp=temp/10;
sum=sum+ f;
} //end of loop
if(sum==n)
printf("numer is strong"); // print strong number
else
printf("number is NOT strong"); // print strong or not
```

```
return 0;
int fact(int r)
int ml=1,i;
for(i=1;i<=r;i++)
ml=ml*i;
return ml;
Q 35. Write a C program to print all Strong numbers
between 1 to n.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include<stdio.h>
#include<conio.h>
int fact(int);
int main()
int n,temp,sum=0,r,end; // decaleration of variable
printf("enter your number");
scanf("%d",&end); // read data
// to perform itertaion 1 to end use for loop
for(n=1;n<=end;n++)</pre>
{
temp=n;
sum=0;// copy original number to another variable
while(temp!=0)
{
r=temp%10;
int f= fact(r);
temp=temp/10;
sum=sum+ f;
} //end of while loop
if(sum==n)
printf("%d\n",sum); // print strong number
} // end of for loop
return 0;
```

```
int fact(int r)
int ml=1,i;
for(i=1;i<=r;i++)</pre>
ml=ml*i;
return ml;
Write a C program to print Fibonacci series up to n
    terms.
OWNER: AKSHAY GANGARAM KADAM
BATCH: PPA9
#include <stdio.h>
#include<conio.h>
void main()
   int a, b, c, i,n;
   // Input number from user
   printf("Enter number of terms ");
   scanf("%d", &n);
   a = 0;
   b = 1;
   c = 0;
   printf("Fibonacci terms: \n");
   // Iteration
   for(i=1; i<=n; i++)
      printf("%d, ", c);
      a = b; // Copy
              // Copy current to back
      b = c;
      c = a + b; // New term
   }
```

}