Fundamentals of programming Lab Manual 4 Home task



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ME-15 Section A

Qalam: 454502

Q1.

```
int main(){
                    int num,i;
                    //using for loop
                    for(i=1;i<151;i++)
                      if (i%10!=0){
                       num=i;
                       //outputing all the numbers between 1
and 150 except divisors of 10
                             cout<<num<<endl:
                      }
                    return 0;
}
                                                                                                 C:\Users\Admin\Desktop\hon X
  2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35,
  37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68,
  71, 72, 73, 74, 75, 76, 77, 78, 79, 81, 82, 83, 84, 85, 86, 87, 88, 89, 91, 92, 93, 94, 95, 96, 97, 98, 99, 101, 102
103, 104, 105, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 119, 121, 122, 123, 124, 125, 126, 127, 128
129, 131, 132, 133, 134, 135, 136, 137, 138, 139, 141, 142, 143, 144, 145, 146, 147, 148, 149,
Process exited after 0.1185 seconds with return value 0
Press any key to continue . . .
```

Q2.

```
int main(){
             int num, sum, i;
             sum=0;
             //asking user to enter digit
             cout<<"please enter the number of
whose digits you want to take sum of"<<endl;
             cin>>num;
             sum=0;
             //using mod to calculate sum of digits
             sum=sum+num%10;
             num=num/10;
             sum=sum+num%10;
             num=num/10;
             sum=sum+num%10;
             num=num/10;
             sum=sum+num%10;
             num=num/10;
             sum=sum+num%10;
```

```
cout<<"the sum of digits is "<<sum;
return 0;</pre>
```

}

```
C:\Users\Admin\Desktop\hon \times + | \times | \
```

Q3.

```
int main(){
    int num,i;
    bool flag;
    flag= false;
    //askin user to enter number
    cout<<"please enter number"<<endl;
    cin>>num;
    //using for loop to check if it is prime
    for (i=num-1; i>1; i--){
        if (num%i==0){flag=true;
    }
}
```

```
i=1;
          else{flag= false;
     }
     if (flag==false){
          cout<<"number is prime"<<endl;</pre>
     }
     else{cout<<"number is not prime"<<endl;
     }
 ©:\ C:\Users\Admin\Desktop\hon X
please enter number
number is prime
Process exited after 5.839 seconds with return value 0
Press any key to continue . .
```