**2024-2025-o‘quv yilida umumta’lim maktabi 11-sinf o‘quvchilarining IV chorakda**

**informatika va axborot texnologiyalari fanidan o‘zlashtirish darajasini aniqlash uchun**

**BSB topshiriqlari va mezonlari**

**IV chorak 4-BSB**

**Jami:** [**50 ball**]

**1-topshiriq.**

Vektorli va rastorli tasvirlar orasidagi farqni tushuntirib bering. Tasvirlarni tahrirlashda foydalanish mumkin bo‘lgan uchta uskunalar vazifasini yozing.

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Uskuna nomi** | **Uskuna vazifasi** |
| Tanlash |  |
| Crop |  |
| Rotate |  |

**2-topshiriq.**

Animatsiyalarda qo‘llaniladigan harakat tvini va shakl tvini vazifalari nimadan iborat? Har birining qanday holatlarda ishlatilishini misollar bilan izohlang.

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3-topshiriq.**

MS Word dasturida master hujjat va ma’lumotlar manbayidan foydalangan holda bir nechta elektron xatlarni qanday birlashtirish mumkin? Ushbu jarayonda bajariladigan asosiy bosqichlarni tartib bilan yozib bering.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4-topshiriq.**

Dastur yarating, unda foydalanuvchining sevimli kitobi nomi, kitobning janri va kitob muallifi haqida ma’lumotlar saqlansin. Dastur foydalanuvchiga “Mening sevimli kitobim **Abdulla Qodiriy**ning “**O‘tkan kunlar**” **romani**” tarzida jumla yaratib bersin.

**5-topshiriq.**

Butun sonlardan tashkil topgan array yarating. Ushbu arrayning barcha toq elementlari ko‘paytmasini hisoblovchi funksiya yarating. Funksiya natijasini ekranga chiqaring.

**Baholash mezoni**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bob** | **Mavzu** | **Baholanadigan ko‘nikma** | **Namunaviy topshiriq** | **Ajratilgan ball** | **Baholash mezoni** |
| XVI-bob. Grafika yaratish | Vektorli va rastrli tasvirlar | Vektorli va rastorli tasvirlarni farqlay oladi;  Tasvirlarda tahrirlash uskunalaridan foydalana oladi; | 1-topshiriq | 12 ball | 1) to‘g‘ri yozilgan ta’rif uchun **3 ball**, har bir to‘g‘ri topilgan tahrirlash uskunalari vazifalari uchun **3 ball**dan, jami **12 ball**;  2) noto‘g‘ri javob uchun  **0 ball;** |
| Guruhlash va biriktirish. Elementni burchak boʻylab aylantirish va joylashtirish. Transformatsiya uskunalari. Tanlash uskunalari. |
| Tasvirni saqlash va hajmini kichraytirish. Matn uchun maydon yaratish. Rastrli tasvirlar. Qizil koʻzni olib tashlash. |
| XVII - bob. Animatsiya | Animatsiya asoslari. Niqoblovchi qatlam. | Animatsiyalarda niqoblovchi qatlamlardan foydalana oladi; | 2-topshiriq | 8 ball | 1) to‘g‘ri bajarilgan har bir band uchun **4 ball**dan, **8 ball**;  2) noto‘g‘ri bajarilgan har bir band uchun **0 ball**; |
| XVIII - bob. Elektron xatlarni birlashtirish | Elektron xatlarni birlashtirish. Master hujjatni manba faylga biriktirish. | Master hujjatlarda promp matnlardan foydalana oladi; | 3-topshiriq | 8 ball | 1) barcha bosqichlarni ketma-ketlikda to‘g‘ri yozib bera olsa **8 ball**;  2) bosqichlarni yozishda kichik kamchiliklarga yo‘l qo‘ysa **2-6 ball**;  3) noto‘g‘ri javoblar uchun **0 ball**; |
| Prompt matni yaratish. Kerakli yozuvlarni avtomatik belgilash. O‘zgaruvchi maydonlar. |
| Amaliy mashg‘ulot. |
| XIX - bob. Veb uchun dasturlash | Ma’lumotlarni chiqarish. HTML elementlari. Oʻzgaruvchilar bilan ishlash. Maʼlumot turlari. | Dasturlashda o‘zgaruvchilarni e’lon qila oladi;  Ma’lumot turlarini to‘g‘ri tanlay oladi; | 4-topshiriq | 10 ball | 1) topshiriqni to‘g‘ri va to‘liq baja olsa **10 ball**;  2) topshiriqni bajarishda kichik kamchiliklar bo‘lsa **6-8 ball**;  3) topshiriqni bajarishda qo‘pol kamchiliklar bo‘lsa, ko‘rsatmalarga amal qilinmasa **2-4 ball**;  4) topshiriqlarni bajara olmasa **0 ball**; |
| Operatorlar. Stringlarni boshqarish. |
| Array. Shartli buyruqlar. | Arraylardan foydalana oladi;  Luplar va shart operatorlarini arraylar bilan qo‘llay oladi;  Funksiyalar yarata oladi; | 5-topshiriq | 12 ball | 1) topshiriqni to‘g‘ri va to‘liq baja olsa **12 ball**;  2) topshiriqni bajarishda kichik kamchiliklar bo‘lsa **6-9 ball**;  3) topshiriqni bajarishda qo‘pol kamchiliklar bo‘lsa, ko‘rsatmalarga amal qilinmasa **2-5 ball**;  4) topshiriqlarni bajara olmasa **0 ball**; |
| Luplar. |
| Funksiyalar. |
| **Jami** |  |  |  | **50 ball** |  |

**Izoh:** Ushbu materiallar o‘qituvchiga BSB topshiriqlarining qaysi bob va mavzudan ekanligi, shuningdek, qaysi ko‘nikmani rivojlantirishga xizmat qilayotganligi haqidagi ma’lumotni beradi.

O‘qituvchi yuqoridagi ma’lumotlar asosida BSB topshiriqlarning turli variantlarini shakllantirishi mumkin.